

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P533094

Luminaire Tested: **GALN-SA8C-730-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533094
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8C-730-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43822 lumens
Efficiency: N/A
Efficacy: 102.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

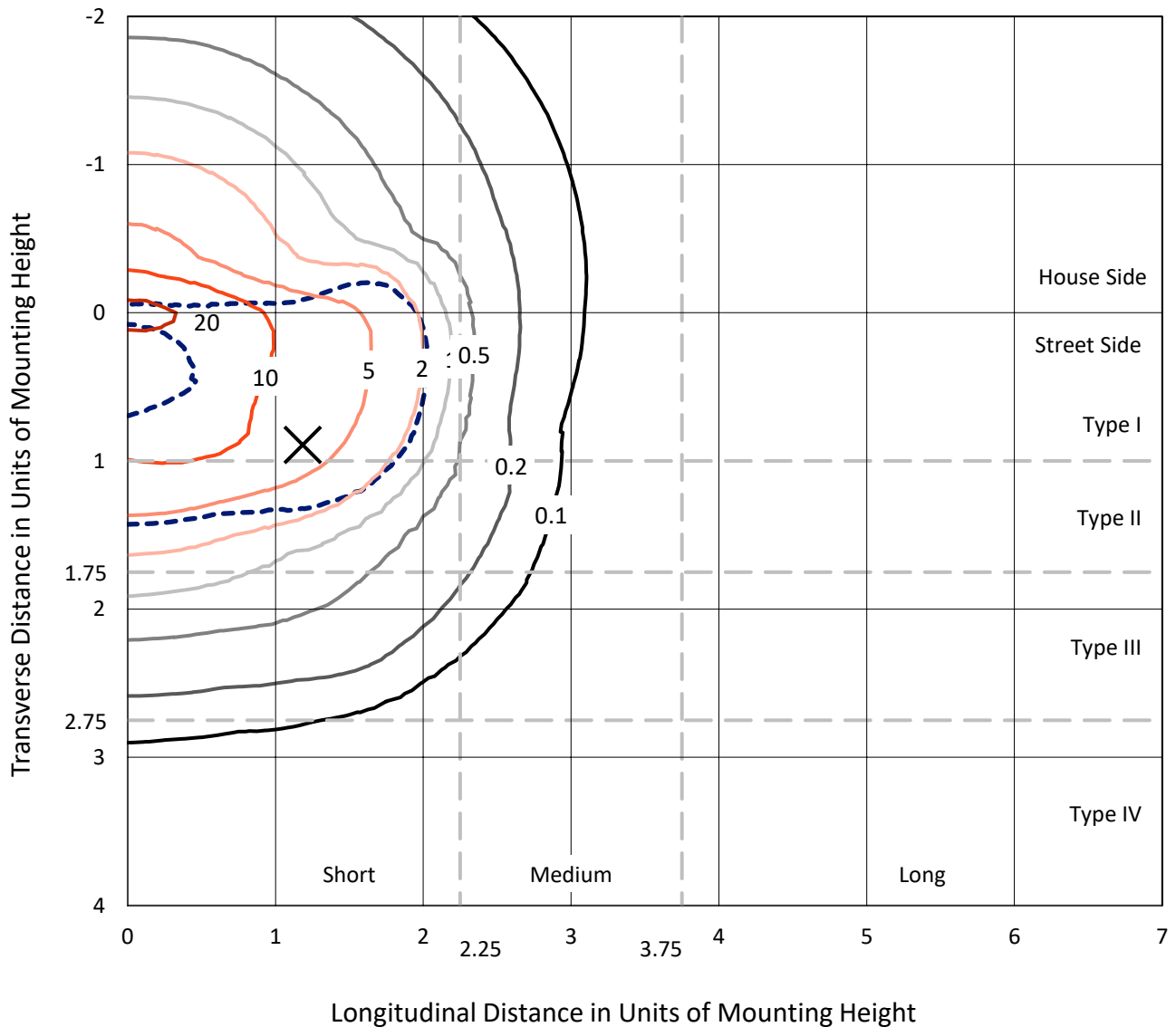
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P533094
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Iso-Footcandle Lines of Horizontal Illumination

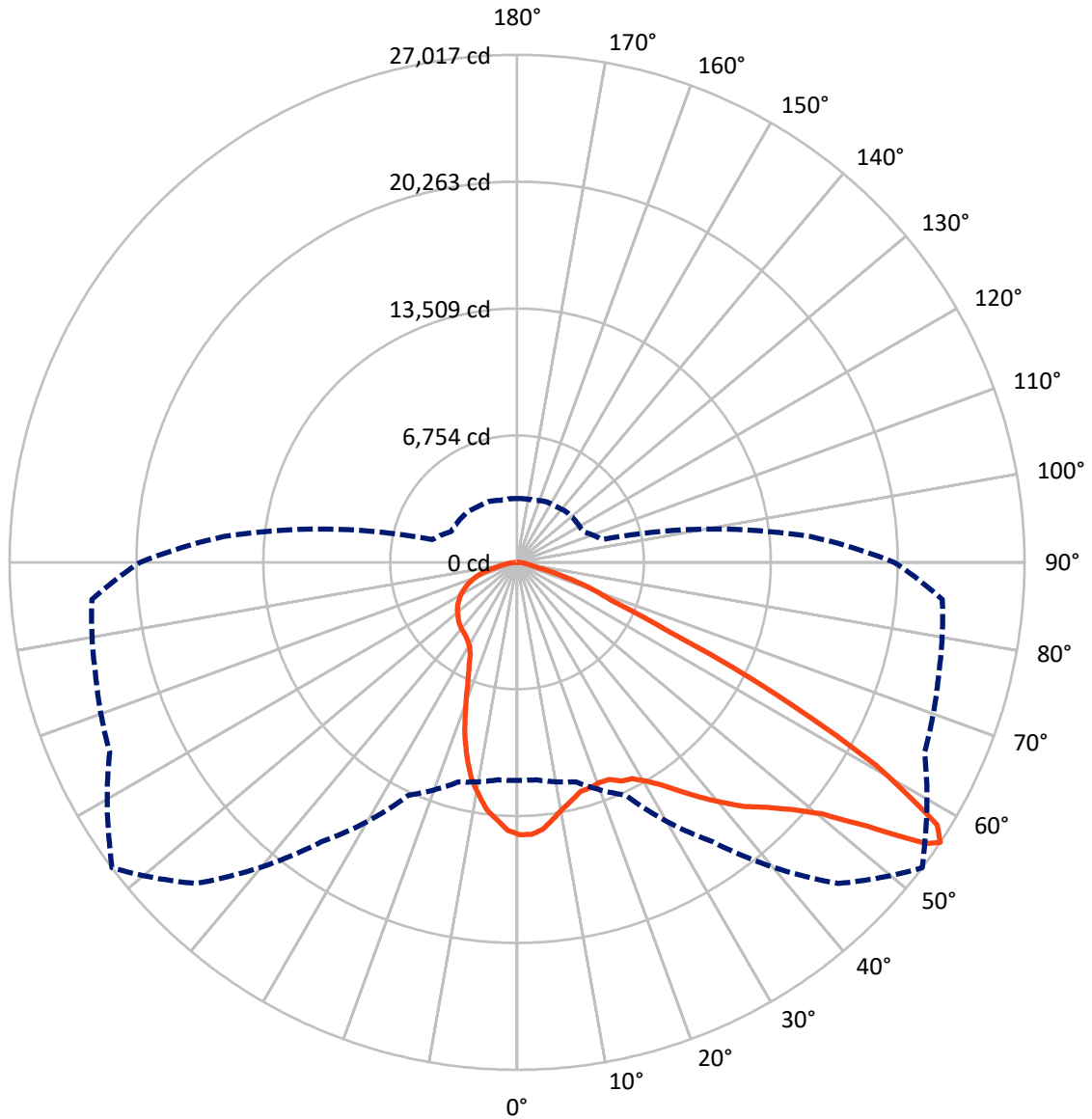
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.2 fc
 Type II - Short - N/A

REPORT NUMBER: P533094
CATALOG NUMBER: GALN-SA8C-730-U-SL2-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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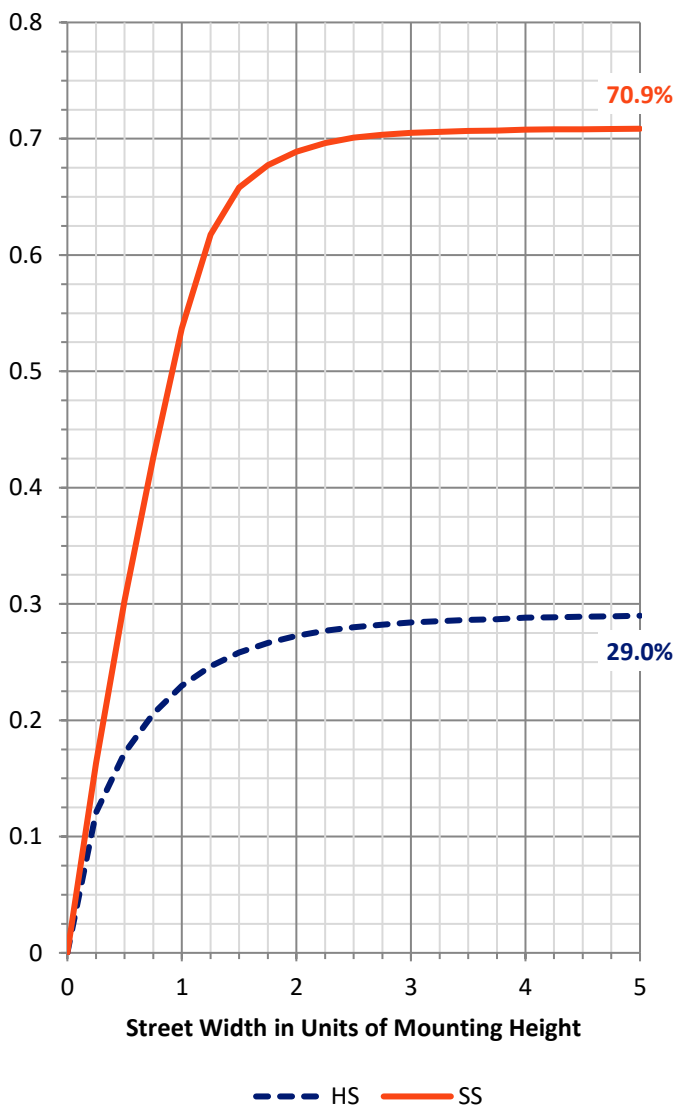
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12788.2	0.0	12788.2
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	31033.8	0.0	31033.8
	% Fixture	70.8	0.0	70.8
Total	Lumens	43822.0	0.0	43822.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1283.5	2.9
10°-20°	3205.6	7.3
20°-30°	4726.9	10.8
30°-40°	6753.9	15.4
40°-50°	9295.8	21.2
50°-60°	10985.1	25.1
60°-70°	5854.3	13.4
70°-80°	1485.2	3.4
80°-90°	231.6	0.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	43822.0	100.0
0°-180°	43822.0	100.0

Coefficient of Utilization

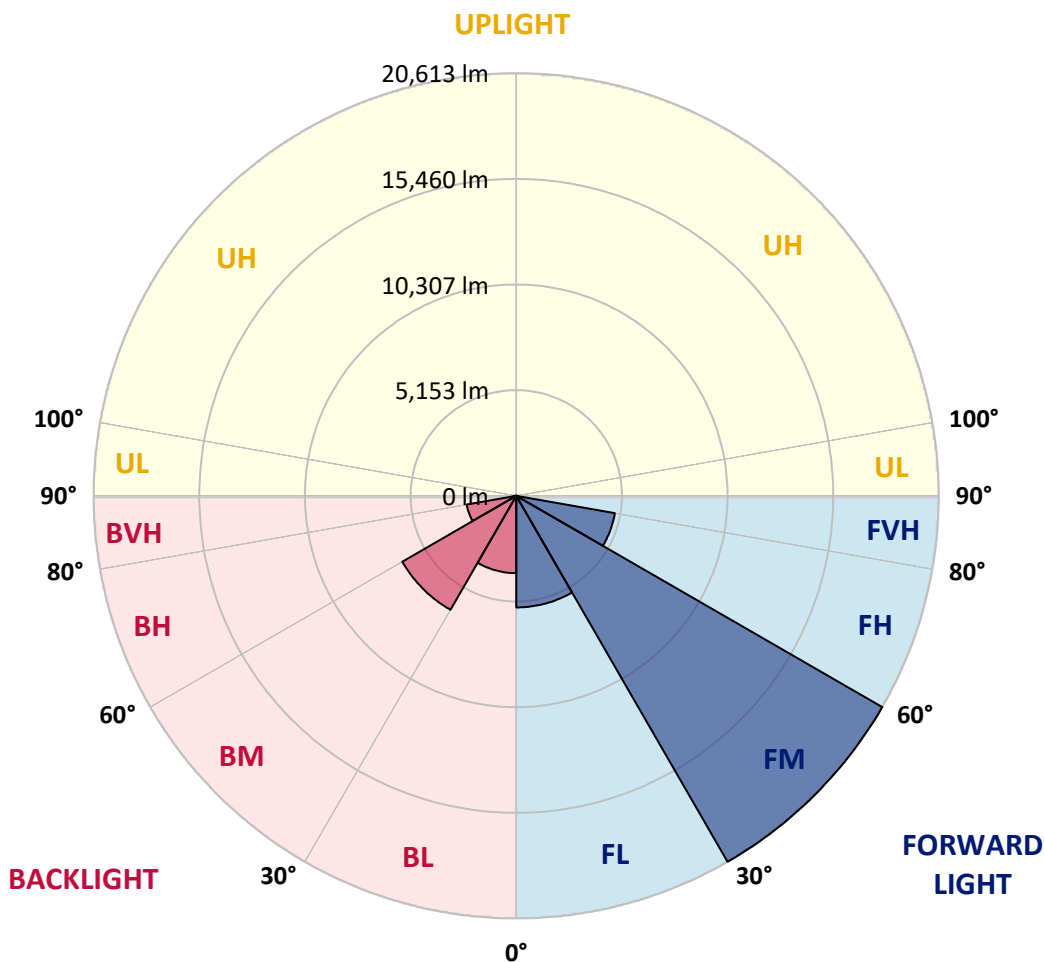


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5444.3	12.4			
FM (30°-60°)	20613.0	47.0			
FH (60°-80°)	4883.4	11.1			G2/5000
FVH (80°-90°)	93.1	0.2			G1/100
BL (0°-30°)	3771.8	8.6	B4/5000		
BM (30°-60°)	6421.8	14.7	B4/8500		
BH (60°-80°)	2456.2	5.6	B3/2500		G3/2500
BVH (80°-90°)	138.5	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	14498.0	14498.0	14498.0	14498.0	14498.0	14498.0	14498.0	14498.0	14498.0	14498.0	14498.0
2.5°	14318.2	14194.5	14267.6	14239.5	14469.9	14537.4	14503.7	14531.8	14661.1	14599.2	14469.9
5°	13379.4	13553.6	13587.3	13671.7	13806.6	14070.8	14278.8	14335.0	14396.9	14683.6	14655.4
7.5°	12524.9	12642.9	12581.1	12828.4	13120.8	13548.0	13801.0	13845.9	14413.7	14571.1	14689.2
10°	11985.2	11867.1	12148.2	12215.7	12547.4	13036.4	13340.0	13525.5	14042.7	14666.7	14739.8
12.5°	11484.9	11445.5	11614.2	11805.3	12176.3	12682.3	12991.5	13064.5	13862.8	14520.5	14863.4
15°	11113.9	11068.9	11237.5	11378.1	11810.9	12260.7	12654.2	12862.2	13666.1	14436.2	14756.6
17.5°	10821.5	10815.9	10911.5	11164.5	11608.6	11985.2	12620.4	12631.7	13564.9	14565.5	14846.6
20°	10804.7	10799.0	10815.9	11097.0	11501.7	11962.7	12513.6	12614.8	13564.9	14475.6	14852.2
22.5°	10945.2	10855.3	10956.5	11136.3	11428.7	12002.1	12553.0	12777.8	13890.9	14919.7	15105.2
25°	11170.1	11192.6	11248.8	11310.6	11479.3	12092.0	12901.5	13087.0	14273.2	15301.9	15453.7
27.5°	11580.4	11569.2	11591.7	11625.4	11771.6	12176.3	13042.1	13519.9	15071.4	15982.1	15830.4
30°	12182.0	12142.6	12232.5	12350.6	12215.7	12446.2	13508.6	13868.4	15813.5	16668.0	16252.0
32.5°	12727.2	12873.4	13042.1	13092.7	12929.6	12974.6	14127.0	14492.4	16431.9	17511.2	16769.2
35°	13407.5	13525.5	13750.4	13907.8	13879.7	13744.8	14970.3	15453.7	17325.7	18129.6	17314.5
37.5°	14070.8	14211.3	14582.4	15049.0	14790.4	14728.5	15869.7	16268.8	17601.2	18461.3	17713.6
40°	15138.9	15133.3	15774.1	16015.9	16246.4	16139.5	16802.9	16937.8	17747.3	18388.2	17724.8
42.5°	16392.5	16313.8	16965.9	17342.6	17640.5	17651.7	17775.4	17730.5	17814.8	18017.2	17606.8
45°	17584.3	17752.9	18410.7	19085.3	19383.2	19416.9	18596.2	18511.8	17932.8	17910.3	17381.9
47.5°	19040.3	19079.6	19619.3	20507.5	21199.0	20962.9	19658.7	19473.1	18450.0	18624.3	17758.6
50°	19124.6	19416.9	19900.4	20946.0	23070.9	23009.1	21035.9	20687.4	19282.0	19636.2	18809.8
52.5°	17359.4	17292.0	17865.4	19574.3	22930.4	25044.1	23318.3	22486.3	21069.7	20799.8	20513.1
55°	13227.6	13385.0	13890.9	15616.7	19911.6	25072.2	26427.0	25746.8	22981.0	22520.0	22188.4
56°	11602.9	11625.4	12103.3	13677.3	18168.9	24178.4	27017.3	26466.4	23931.0	23228.4	22722.4
57.5°	9618.5	9489.2	9736.6	10596.7	15335.7	22289.5	26370.8	26910.5	25044.1	23992.9	23290.2
60°	7572.3	7544.2	7443.0	7600.4	9691.6	16791.6	21952.3	23166.5	24931.7	23273.3	22306.4
62.5°	6183.7	6043.2	6245.6	6470.4	6734.6	10416.8	15425.6	16139.5	19793.6	18579.3	16757.9
65°	4795.2	4727.7	4980.7	5711.5	5868.9	6616.6	8786.5	9337.4	11687.3	11479.3	10107.6
67.5°	3299.9	3311.1	3530.3	4643.4	5441.7	5374.2	5379.8	5666.5	6099.4	4531.0	3946.3
70°	2091.2	2085.6	2203.7	2990.7	4379.2	4424.2	4199.3	4115.0	3901.4	2361.1	2501.6
72.5°	1343.6	1304.2	1366.0	1652.7	2265.5	2619.7	2698.4	2749.0	2259.9	1855.1	2012.5
75°	758.9	719.6	697.1	770.2	893.8	1034.4	1135.6	1169.3	1309.8	1405.4	1489.7
77.5°	230.5	208.0	253.0	337.3	444.1	595.9	725.2	747.7	882.6	995.0	1079.3
80°	101.2	112.4	157.4	224.9	314.8	421.6	511.6	545.3	635.2	719.6	742.0
82.5°	61.8	67.5	106.8	151.8	219.2	297.9	365.4	376.6	466.6	534.0	550.9
85°	22.5	28.1	56.2	89.9	140.5	191.1	191.1	208.0	191.1	191.1	208.0
87.5°	0.0	0.0	5.6	11.2	11.2	16.9	22.5	22.5	28.1	33.7	39.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	14498.0	14498.0	14498.0	14498.0	14498.0	14498.0	14498.0	14498.0	14498.0	14498.0	14498.0
2.5°	14537.4	14509.3	14464.3	14301.3	14284.4	14233.8	13952.8	13907.8	13952.8	13817.8	13829.1
5°	14509.3	14593.6	14256.3	14093.3	13789.7	13570.5	13317.5	13188.2	12957.7	12811.6	12974.6
7.5°	14633.0	14599.2	14177.6	13823.5	13368.1	12811.6	12367.5	12114.5	11709.7	11597.3	11681.6
10°	14588.0	14408.1	13913.4	13446.8	12586.7	12097.6	11378.1	10681.0	10298.7	10102.0	10073.9
12.5°	14526.2	14475.6	13649.2	12845.3	11940.2	10911.5	9899.6	9241.9	8617.9	8348.0	8387.4
15°	14599.2	14172.0	13154.5	12137.0	10934.0	9584.8	8494.2	7645.3	7212.5	7038.2	7038.2
17.5°	14565.5	14025.8	12918.4	11344.3	9820.9	8224.4	7027.0	6515.4	6335.5	6335.5	6386.1
20°	14582.4	14121.4	12440.5	10551.7	8505.4	6925.8	6054.4	5868.9	5947.6	5975.7	6003.8
22.5°	14677.9	13806.6	11974.0	9680.4	7285.6	5925.1	5497.9	5503.5	5644.1	5795.8	5767.7
25°	14796.0	13682.9	11406.2	8814.6	6352.4	5436.1	5301.1	5284.3	5391.1	5469.8	5481.0
27.5°	14694.8	13469.3	10827.2	7735.3	5587.8	5110.0	5081.9	5093.1	5126.9	5284.3	5233.7
30°	15026.5	13531.1	10102.0	6830.2	5166.2	5003.2	4969.5	4952.6	5003.2	5048.2	5008.8
32.5°	15436.8	13311.9	9562.3	5958.9	4958.2	4924.5	4857.0	4834.6	4862.7	4817.7	4840.2
35°	15616.7	13272.5	8859.6	5334.9	4795.2	4767.1	4727.7	4722.1	4727.7	4688.4	4654.7
37.5°	15717.9	13458.1	8055.7	5048.2	4694.0	4722.1	4632.2	4620.9	4519.7	4542.2	4559.1
40°	15892.2	13171.4	7403.6	4772.7	4632.2	4576.0	4497.3	4480.4	4412.9	4373.6	4412.9
42.5°	15639.2	13087.0	6762.8	4654.7	4542.2	4480.4	4424.2	4328.6	4306.1	4272.4	4249.9
45°	15436.8	12603.6	6189.4	4508.5	4435.4	4401.7	4294.9	4193.7	4109.4	4143.1	4092.5
47.5°	15588.6	12434.9	5621.6	4384.8	4289.3	4249.9	4143.1	4064.4	3980.1	3940.7	3929.5
50°	16195.8	12749.7	5143.7	4294.9	4165.6	4143.1	4002.6	3912.6	3833.9	3805.8	3817.1
52.5°	17646.1	13609.8	4817.7	4109.4	4047.5	3946.3	3867.6	3755.2	3704.6	3614.7	3670.9
55°	19484.4	15009.6	4733.4	3935.1	3901.4	3811.4	3704.6	3620.3	3524.7	3451.6	3434.8
56°	20074.6	15678.6	4665.9	3867.6	3811.4	3760.8	3620.3	3569.7	3417.9	3401.1	3389.8
57.5°	20552.5	16268.8	4677.2	3738.3	3682.1	3637.2	3552.8	3429.2	3328.0	3266.1	3294.2
60°	19473.1	15228.8	4463.5	3541.6	3530.3	3446.0	3328.0	3271.8	3148.1	3075.0	3058.1
62.5°	14475.6	10338.1	3620.3	3288.6	3283.0	3193.1	3058.1	2996.3	2973.8	2872.6	2872.6
65°	8336.8	6481.7	3131.2	3080.6	3035.7	2945.7	2810.8	2760.2	2704.0	2670.2	2642.1
67.5°	3558.5	3361.7	2844.5	2838.9	2788.3	2675.9	2541.0	2462.3	2389.2	2321.7	2355.4
70°	2580.3	2619.7	2569.1	2541.0	2479.1	2338.6	2220.5	2125.0	2012.5	1967.6	2001.3
72.5°	2046.3	2130.6	2203.7	2209.3	2136.2	1973.2	1843.9	1714.6	1590.9	1529.1	1557.2
75°	1551.6	1607.8	1680.9	1697.7	1590.9	1478.5	1354.8	1219.9	1124.3	1051.2	1062.5
77.5°	1118.7	1107.5	1174.9	1163.7	1113.1	1034.4	921.9	798.3	691.5	624.0	629.6
80°	764.5	781.4	820.8	815.1	753.3	702.7	618.4	517.2	438.5	382.3	371.0
82.5°	534.0	562.2	595.9	567.8	517.2	466.6	404.8	331.7	269.8	224.9	213.6
85°	191.1	219.2	253.0	269.8	286.7	275.5	230.5	185.5	134.9	112.4	106.8
87.5°	39.4	45.0	50.6	50.6	50.6	45.0	39.4	39.4	33.7	16.9	16.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)