

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: P456038

Luminaire Tested: **GALN-SA7B-730-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456038
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-7)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7B-730-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28898 lumens
Efficiency: N/A
Efficacy: 101.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G3

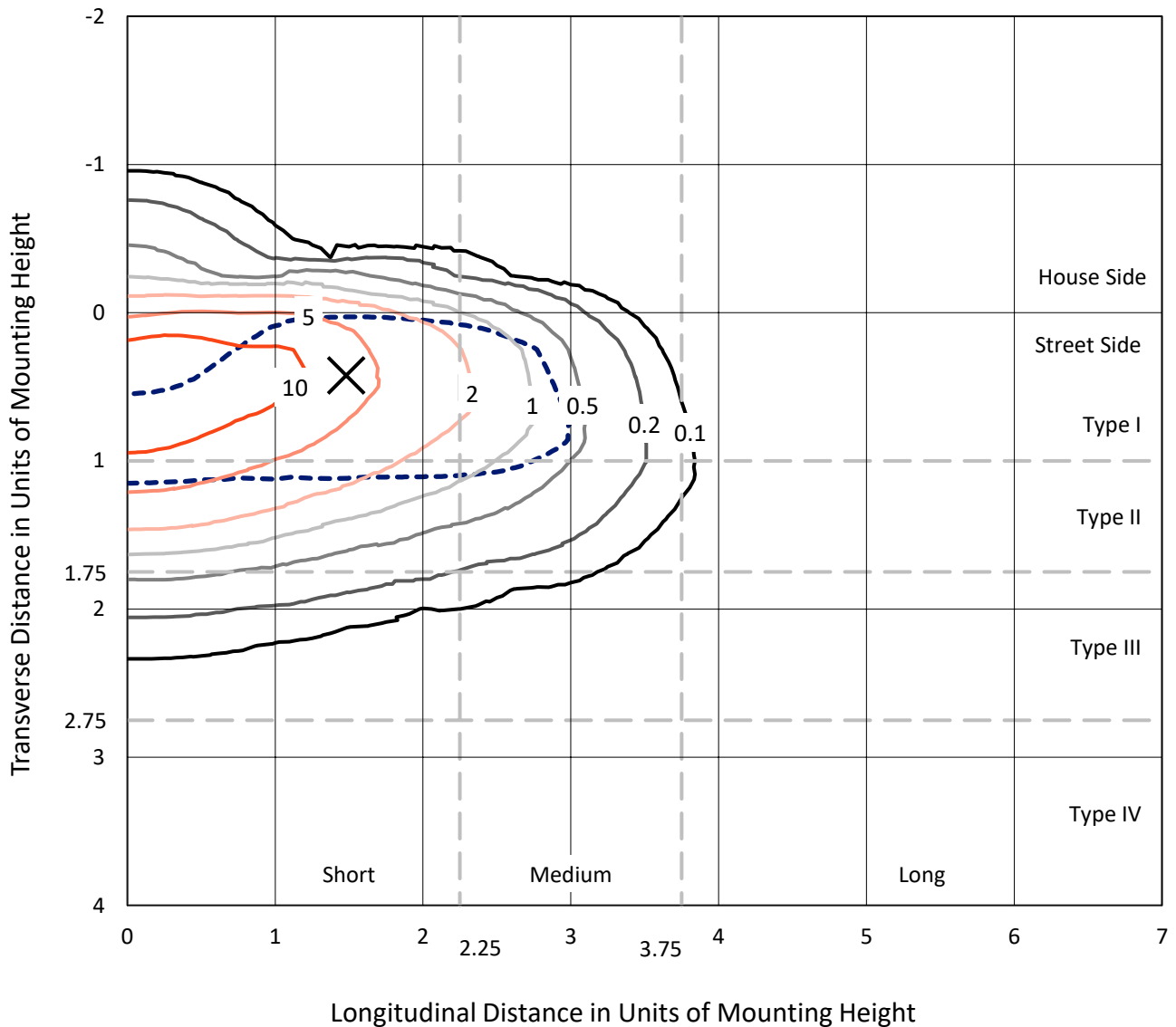
Input Watts (W): 286
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

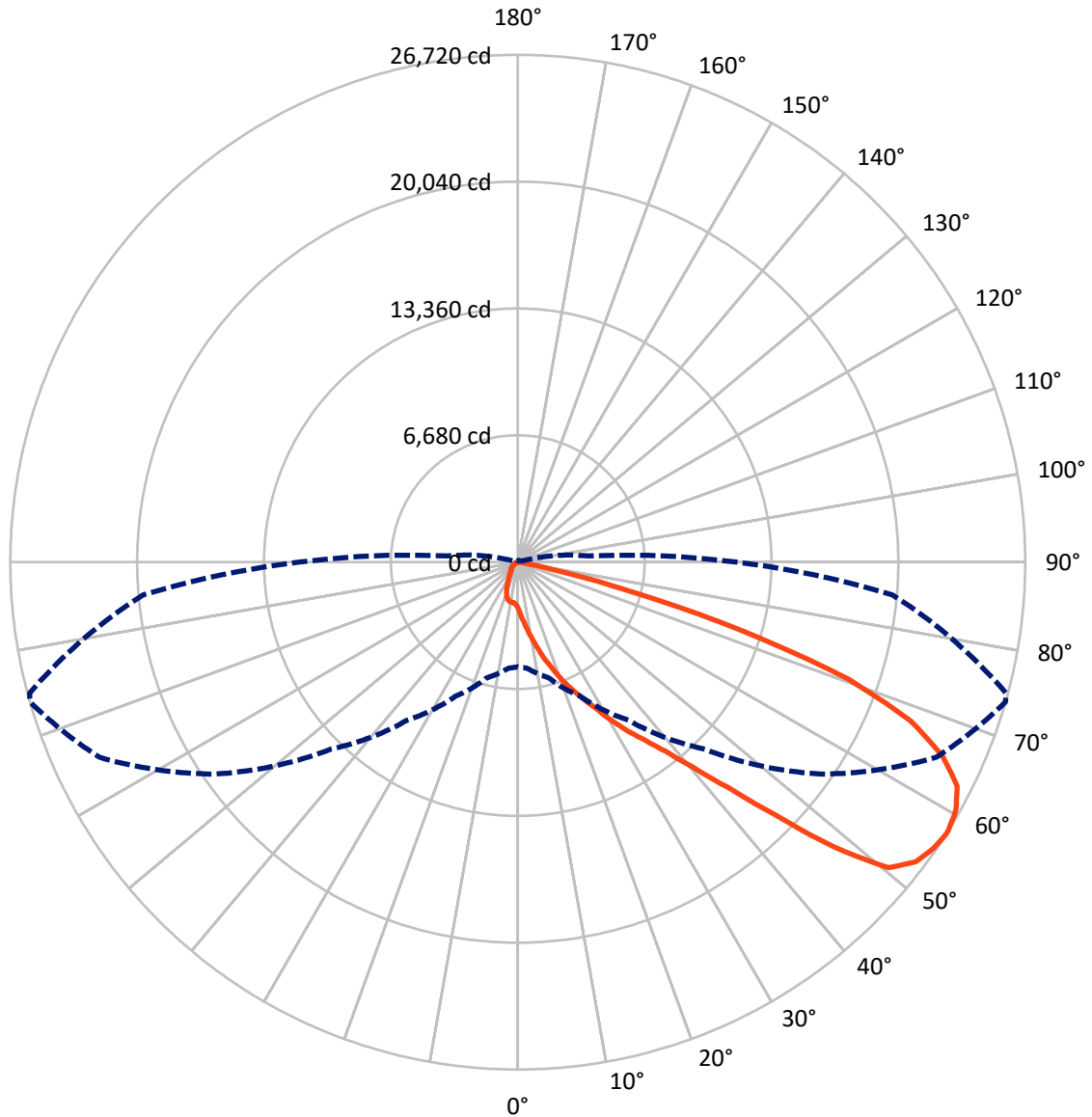
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical



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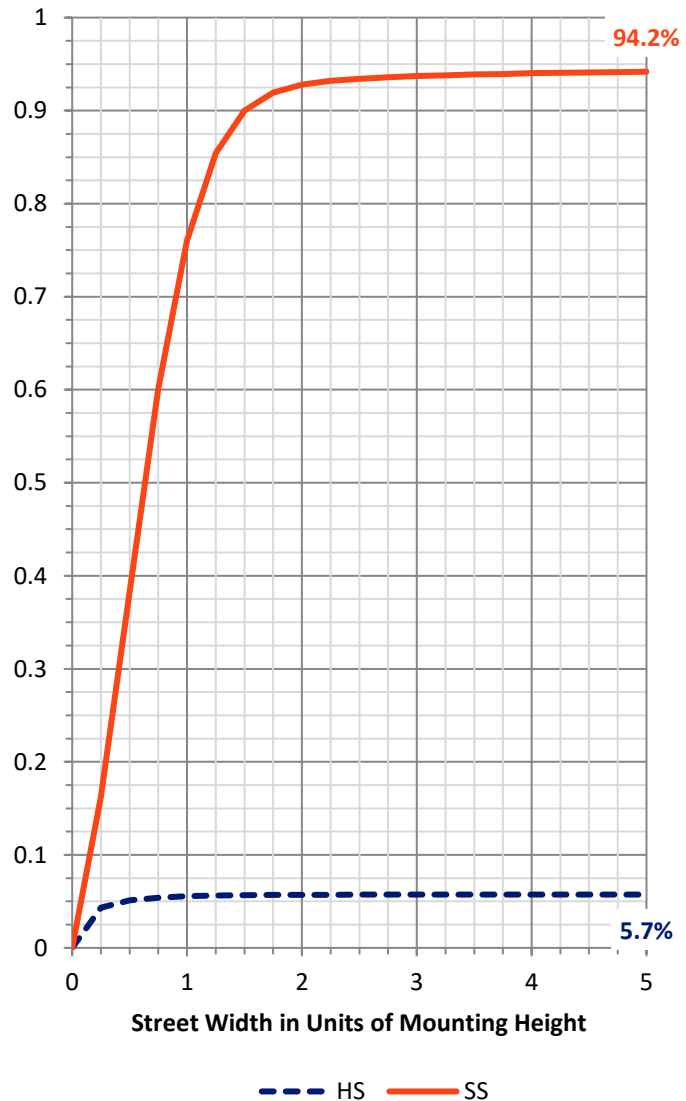
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1666.7	0.0	1666.7
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	27231.3	0.0	27231.3
	% Fixture	94.2	0.0	94.2
Total	Lumens	28898.0	0.0	28898.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	292.1	1.0
10°-20°	1151.4	4.0
20°-30°	2463.8	8.5
30°-40°	4528.4	15.7
40°-50°	6942.0	24.0
50°-60°	7343.7	25.4
60°-70°	4795.7	16.6
70°-80°	1310.4	4.5
80°-90°	70.6	0.2
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°	28898.0	100.0
0°-180°	28898.0	100.0

Coefficient of Utilization



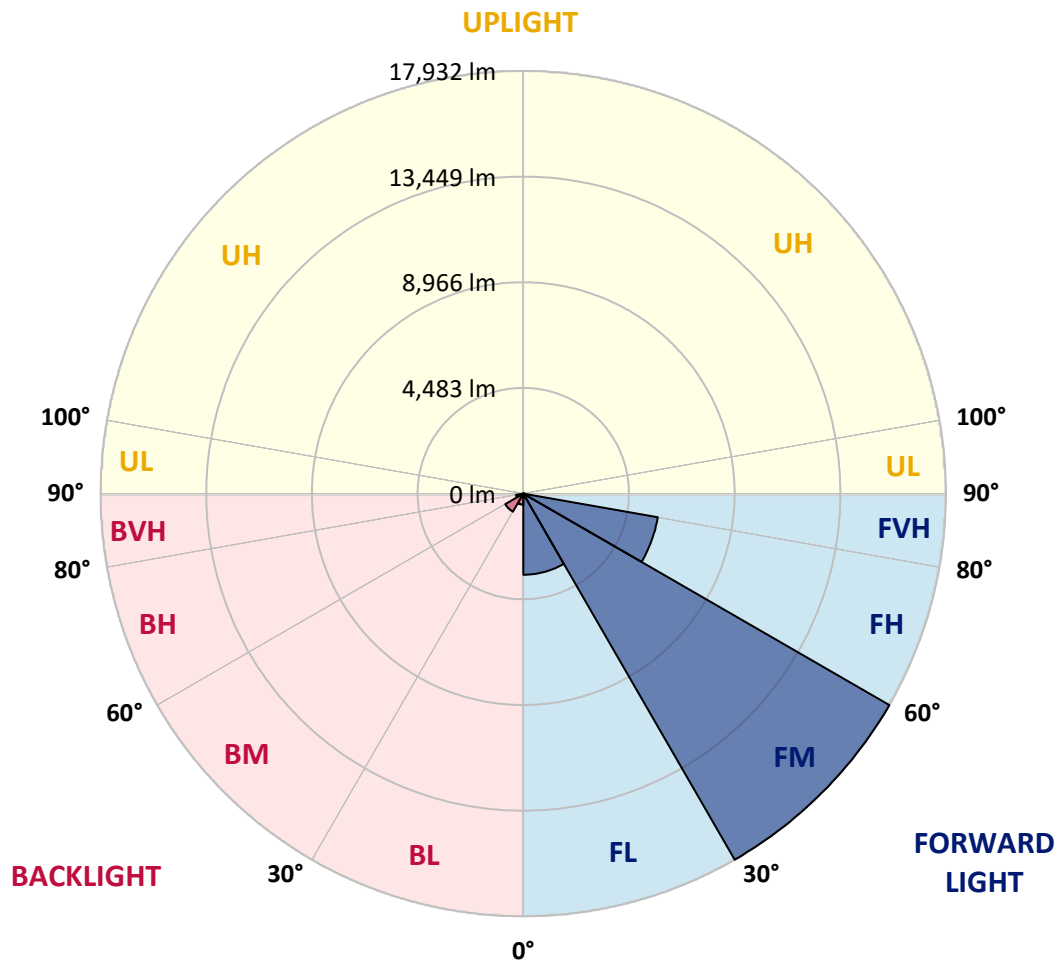
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3441.7	11.9			
FM (30°-60°)	17931.7	62.1			
FH (60°-80°)	5793.1	20.0			G3/7500
FVH (80°-90°)	64.7	0.2			G1/100
BL (0°-30°)	465.6	1.6	B1/500		
BM (30°-60°)	882.4	3.1	B1/1000		
BH (60°-80°)	312.9	1.1	B1/500		G1/500
BVH (80°-90°)	5.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	2420.2	2420.2	2420.2	2420.2	2420.2	2420.2	2420.2	2420.2	2420.2	2420.2	2420.2
2.5°	3541.5	3509.5	3445.7	3423.8	3330.0	3184.3	3056.6	2885.0	2749.4	2735.4	2571.8
5°	4742.6	4670.7	4640.8	4497.2	4271.7	4060.2	3697.1	3421.8	3104.5	3080.6	2751.4
7.5°	5899.8	5800.0	5770.1	5634.4	5371.1	5037.9	4567.0	4066.2	3563.4	3517.5	2992.8
10°	6737.8	6751.7	6697.9	6608.1	6394.6	6055.4	5474.8	4790.5	4074.2	4016.3	3264.1
12.5°	7338.3	7336.3	7346.3	7344.3	7230.6	6973.2	6362.7	5574.6	4636.8	4523.1	3575.4
15°	7729.4	7735.4	7765.3	7869.0	7881.0	7721.4	7212.6	6324.8	5289.3	5147.6	3912.6
17.5°	8124.4	8166.3	8214.2	8312.0	8399.8	8335.9	7976.8	7106.9	5879.8	5774.1	4273.7
20°	8776.9	8834.7	8806.8	8866.6	8912.5	8918.5	8641.2	7829.1	6596.1	6418.5	4686.7
22.5°	9820.3	9818.3	9746.5	9638.8	9549.0	9545.0	9293.6	8571.4	7246.5	7075.0	5101.7
25°	11139.2	11145.2	11005.5	10698.2	10474.8	10201.4	9912.1	9221.8	7942.9	7731.4	5538.7
27.5°	12651.5	12613.6	12402.1	11979.1	11536.2	11069.3	10652.3	9978.0	8681.1	8505.5	6039.5
30°	14010.2	13996.3	13748.9	13232.1	12649.5	12180.7	11576.1	10925.7	9636.8	9421.3	6600.1
32.5°	15275.2	15295.2	14952.0	14417.3	13854.6	13313.9	12675.5	11831.5	10574.5	10269.3	7210.6
35°	16262.8	16282.8	15927.6	15482.7	14904.1	14455.2	13846.6	12797.2	11500.3	11242.9	7912.9
37.5°	16789.6	16815.5	16610.0	16274.8	15913.7	15688.2	15121.6	14040.2	12625.6	12470.0	8742.9
40°	16889.3	16919.2	16829.5	16739.7	16719.7	16881.3	16715.7	15504.6	14185.8	13942.4	9980.0
42.5°	16590.0	16629.9	16669.8	16869.4	17276.4	17869.0	18445.6	17491.9	16195.0	15867.8	11492.3
45°	15803.9	15799.9	15957.6	16474.3	17386.1	18651.1	20253.2	19979.9	18932.4	18543.3	13629.2
47.5°	14459.2	14439.2	14780.4	15516.6	16937.2	18794.7	21727.7	23000.6	22426.0	22066.8	15925.6
50°	12410.1	12507.9	13044.6	14072.1	15821.9	18359.8	22182.6	24981.8	25293.1	24912.0	17781.2
52.5°	10009.9	10005.9	10847.9	12242.5	14169.9	17402.1	21865.3	25341.0	26224.8	25933.5	18695.0
55°	7408.2	7460.0	8335.9	9742.5	12025.0	15654.3	20829.8	24971.8	26580.0	26374.5	19297.5
57°	5510.7	5602.5	6304.8	7793.2	10157.5	13924.5	19451.1	24311.4	26719.6	26607.9	19798.3
57.5°	5143.6	5147.6	5832.0	7184.7	9610.8	13260.1	19056.1	24036.1	26715.6	26653.8	19880.1
60°	3166.4	3266.1	3739.0	4856.3	7035.1	10349.1	16408.5	22453.9	26508.1	26597.9	20229.3
62.5°	1895.4	1937.3	2244.6	2926.9	4535.1	7553.8	13427.7	20428.8	25967.4	26240.8	20205.3
65°	1219.1	1229.0	1368.7	1771.7	2835.2	5105.7	10347.1	17753.2	24568.8	25071.6	19415.2
67.5°	941.7	957.7	1013.6	1163.2	1644.0	3180.3	7318.4	14898.1	22306.3	22954.7	17499.8
70°	836.0	844.0	863.9	911.8	1087.4	1795.7	4553.0	11638.0	18497.4	18681.0	13695.0
72.5°	682.4	704.3	766.2	782.1	861.9	1121.3	2533.9	7811.2	12428.1	12474.0	7661.5
75°	528.7	532.7	624.5	670.4	726.3	772.1	1131.3	3938.5	5969.6	5650.4	2952.9
77.5°	395.0	413.0	454.9	512.8	592.6	552.7	506.8	1484.4	1853.5	1819.6	857.9
80°	253.4	263.4	317.2	385.1	460.9	361.1	285.3	435.0	407.0	419.0	205.5
82.5°	127.7	129.7	203.5	313.2	293.3	181.6	179.6	177.6	151.6	149.6	95.8
85°	14.0	29.9	131.7	179.6	131.7	59.9	83.8	81.8	79.8	81.8	55.9
87.5°	2.0	2.0	21.9	25.9	18.0	20.0	23.9	25.9	31.9	29.9	23.9
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°	2420.2	2420.2	2420.2	2420.2	2420.2	2420.2	2420.2	2420.2	2420.2	2420.2	2420.2
2.5°	2492.0	2412.2	2264.5	2122.9	2017.1	1949.3	1861.5	1829.6	1783.7	1777.7	1755.8
5°	2599.7	2448.1	2190.7	1987.2	1823.6	1699.9	1592.2	1502.4	1430.6	1414.6	1422.6
7.5°	2753.4	2527.9	2168.8	1891.4	1664.0	1452.5	1280.9	1175.2	1099.4	1071.4	1075.4
10°	2926.9	2633.7	2164.8	1789.7	1442.5	1183.1	995.6	901.8	857.9	842.0	824.0
12.5°	3132.5	2755.4	2154.8	1632.1	1199.1	943.7	810.0	754.2	712.3	700.3	700.3
15°	3363.9	2885.0	2106.9	1436.5	973.7	780.1	690.3	646.4	632.5	620.5	620.5
17.5°	3605.3	3012.7	2007.2	1195.1	808.1	668.4	612.5	586.6	566.6	552.7	552.7
20°	3880.7	3138.4	1847.5	981.6	682.4	596.6	552.7	522.7	506.8	494.8	490.8
22.5°	4142.0	3240.2	1644.0	806.1	594.6	536.7	496.8	464.9	448.9	442.9	442.9
25°	4413.4	3302.0	1398.6	666.4	542.7	486.8	442.9	417.0	403.0	399.0	397.0
27.5°	4676.7	3338.0	1183.1	582.6	494.8	440.9	399.0	379.1	365.1	361.1	363.1
30°	4996.0	3343.9	973.7	522.7	452.9	397.0	359.1	341.2	333.2	329.2	327.2
32.5°	5319.2	3336.0	818.0	486.8	413.0	359.1	327.2	313.2	307.3	301.3	301.3
35°	5682.3	3294.1	696.3	450.9	375.1	327.2	299.3	287.3	279.3	273.3	271.3
37.5°	6133.2	3272.1	626.5	411.0	341.2	297.3	271.3	259.4	253.4	245.4	243.4
40°	6843.5	3369.9	604.5	375.1	307.3	269.4	245.4	231.4	223.5	215.5	213.5
42.5°	7729.4	3541.5	568.6	339.2	277.3	243.4	219.5	203.5	189.5	179.6	175.6
45°	8876.6	3766.9	512.8	301.3	251.4	215.5	193.5	173.6	155.6	147.6	145.6
47.5°	10079.7	3984.4	462.9	271.3	223.5	191.5	167.6	145.6	129.7	123.7	121.7
50°	10817.9	4028.3	431.0	237.4	195.5	165.6	141.7	121.7	111.7	105.7	105.7
52.5°	11155.1	3958.5	387.1	207.5	169.6	145.6	121.7	105.7	99.8	95.8	93.8
55°	11390.6	3850.7	329.2	179.6	145.6	123.7	107.7	95.8	87.8	83.8	81.8
57°	11528.2	3705.1	285.3	157.6	125.7	107.7	95.8	85.8	77.8	69.8	69.8
57.5°	11534.2	3649.2	273.3	155.6	119.7	103.8	93.8	83.8	73.8	65.8	63.8
60°	11356.6	3266.1	219.5	131.7	95.8	87.8	77.8	65.8	51.9	43.9	41.9
62.5°	10786.0	2779.3	181.6	111.7	77.8	67.8	55.9	49.9	35.9	25.9	25.9
65°	9922.1	2254.6	155.6	89.8	63.8	49.9	37.9	35.9	21.9	12.0	10.0
67.5°	8673.1	1755.8	131.7	73.8	53.9	35.9	25.9	23.9	12.0	4.0	0.0
70°	6608.1	1197.1	109.7	59.9	39.9	25.9	18.0	14.0	8.0	2.0	0.0
72.5°	3808.8	658.4	91.8	45.9	29.9	20.0	14.0	8.0	8.0	0.0	0.0
75°	1360.7	283.3	69.8	33.9	23.9	16.0	10.0	4.0	6.0	2.0	0.0
77.5°	433.0	151.6	45.9	25.9	20.0	12.0	8.0	4.0	4.0	2.0	0.0
80°	127.7	79.8	27.9	21.9	14.0	10.0	6.0	2.0	4.0	2.0	0.0
82.5°	69.8	39.9	21.9	16.0	14.0	8.0	6.0	2.0	2.0	2.0	0.0
85°	35.9	23.9	18.0	16.0	14.0	8.0	6.0	2.0	0.0	2.0	2.0
87.5°	20.0	18.0	18.0	16.0	14.0	10.0	6.0	2.0	0.0	0.0	0.0
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)