

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: P457865

Luminaire Tested: **GALN-SA9B-727-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457865
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-SA9B-727-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 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: 34540 lumens
Efficiency: N/A
Efficacy: 94.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

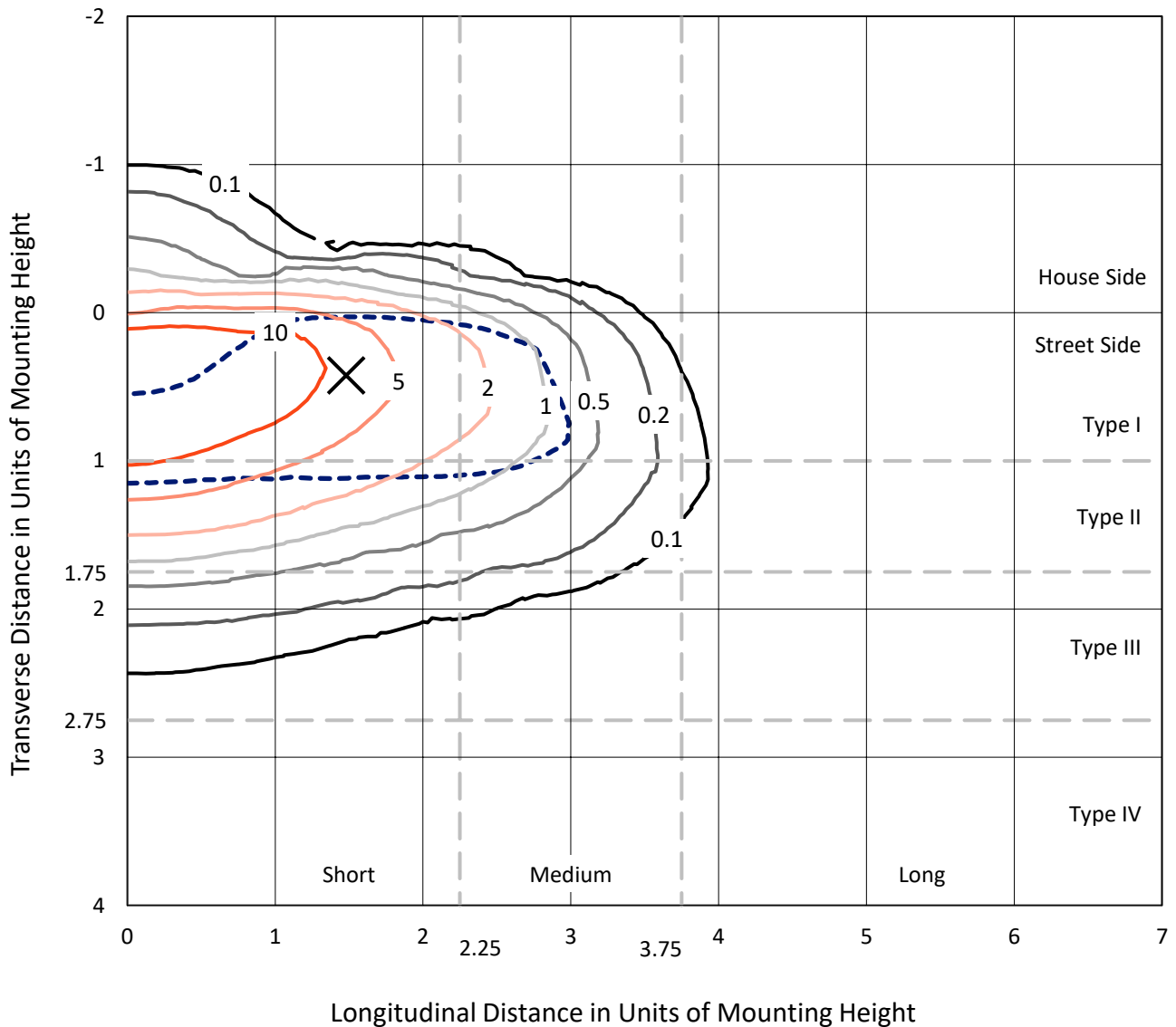
Input Watts (W): 364
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

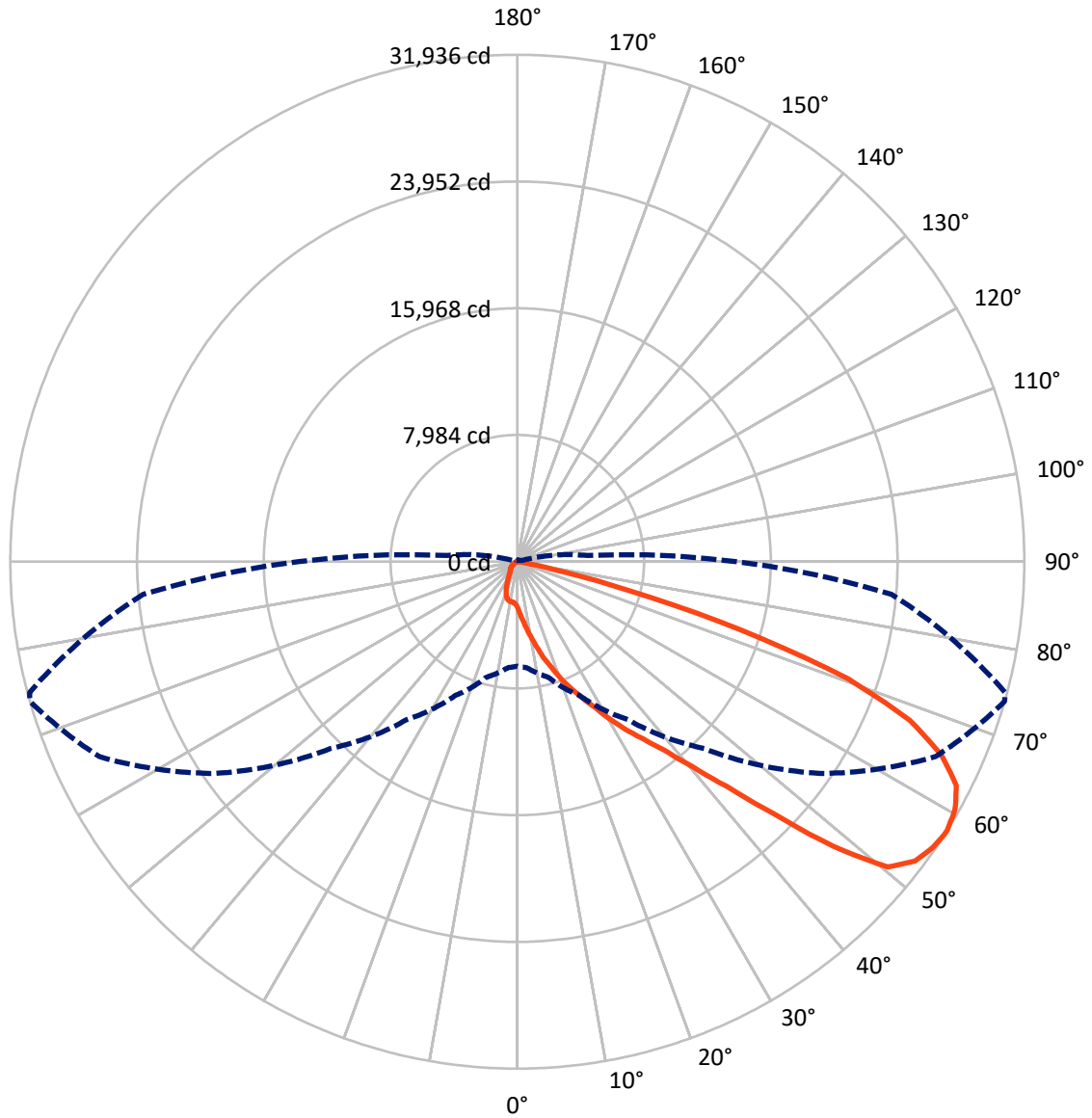
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.5 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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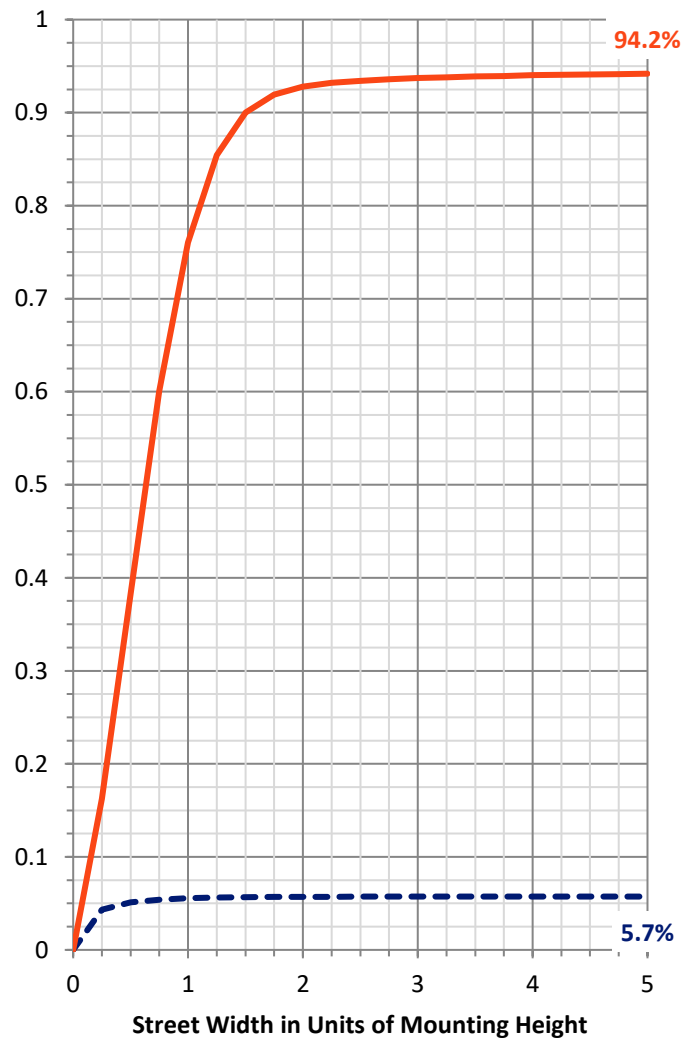
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1992.2	0.0	1992.2
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	32547.8	0.0	32547.8
	% Fixture	94.2	0.0	94.2
Total	Lumens	34540.0	0.0	34540.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	349.1	1.0
10°-20°	1376.2	4.0
20°-30°	2944.8	8.5
30°-40°	5412.5	15.7
40°-50°	8297.4	24.0
50°-60°	8777.5	25.4
60°-70°	5732.0	16.6
70°-80°	1566.2	4.5
80°-90°	84.3	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°	34540.0	100.0
0°-180°	34540.0	100.0



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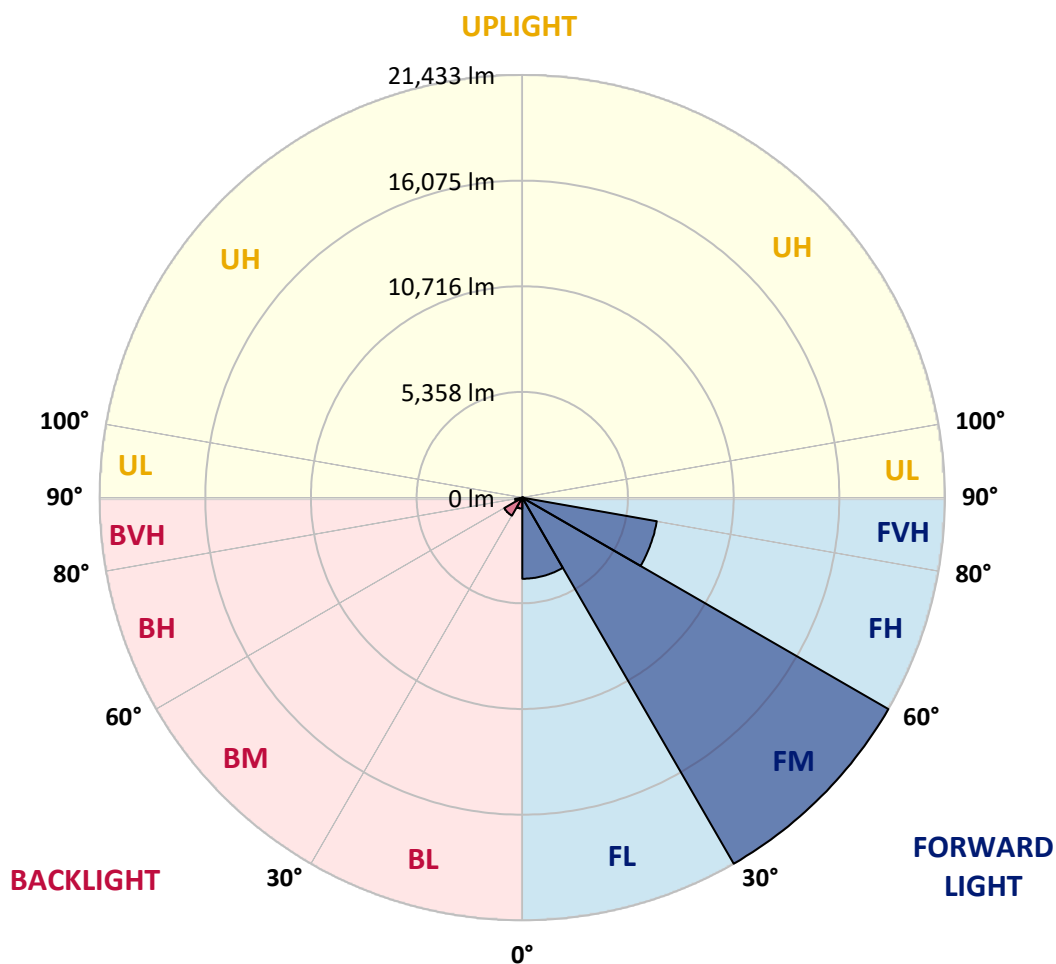
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4113.7	11.9			
FM (30°-60°)	21432.7	62.1			
FH (60°-80°)	6924.1	20.0			G3/7500
FVH (80°-90°)	77.4	0.2			G1/100
BL (0°-30°)	556.5	1.6	B2/1000		
BM (30°-60°)	1054.7	3.1	B2/2500		
BH (60°-80°)	374.0	1.1	B1/500		G1/500
BVH (80°-90°)	7.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	2892.7	2892.7	2892.7	2892.7	2892.7	2892.7	2892.7	2892.7	2892.7	2892.7	2892.7
2.5°	4232.9	4194.7	4118.4	4092.2	3980.1	3806.0	3653.4	3448.3	3286.2	3269.5	3073.9
5°	5668.5	5582.7	5546.9	5375.2	5105.7	4852.9	4418.9	4089.8	3710.6	3682.0	3288.5
7.5°	7051.7	6932.4	6896.6	6734.5	6419.7	6021.4	5458.7	4860.1	4259.1	4204.3	3577.1
10°	8053.2	8069.9	8005.5	7898.2	7643.1	7237.7	6543.7	5725.7	4869.6	4800.5	3901.4
12.5°	8771.0	8768.7	8780.6	8778.2	8642.3	8334.6	7604.9	6662.9	5542.1	5406.2	4273.4
15°	9238.5	9245.6	9281.4	9405.4	9419.7	9228.9	8620.8	7559.6	6321.9	6152.6	4676.5
17.5°	9710.6	9760.7	9817.9	9934.8	10039.7	9963.4	9534.2	8494.4	7027.8	6901.4	5108.1
20°	10490.4	10559.6	10526.2	10597.7	10652.6	10659.8	10328.3	9357.7	7883.9	7671.7	5601.7
22.5°	11737.7	11735.3	11649.4	11520.6	11413.3	11408.6	11108.1	10244.8	8661.3	8456.3	6097.8
25°	13314.0	13321.1	13154.2	12786.9	12519.8	12193.1	11847.3	11022.2	9493.6	9240.8	6620.0
27.5°	15121.6	15076.3	14823.5	14317.9	13788.5	13230.5	12732.1	11926.0	10376.0	10166.1	7218.6
30°	16745.6	16728.9	16433.2	15815.5	15119.2	14558.8	13836.2	13058.8	11518.3	11260.7	7888.7
32.5°	18257.5	18281.4	17871.2	17232.1	16559.6	15913.3	15150.2	14141.5	12639.1	12274.2	8618.4
35°	19438.0	19461.8	19037.3	18505.5	17813.9	17277.4	16550.0	15295.7	13745.6	13438.0	9457.8
37.5°	20067.5	20098.5	19852.9	19452.3	19020.6	18751.1	18073.9	16781.4	15090.6	14904.6	10449.9
40°	20186.8	20222.5	20115.2	20007.9	19984.1	20177.2	19979.3	18531.8	16955.4	16664.5	11928.4
42.5°	19829.0	19876.7	19924.4	20162.9	20649.4	21357.7	22046.8	20906.9	19356.9	18965.8	13736.1
45°	18889.5	18884.7	19073.1	19690.7	20780.6	22292.5	24207.4	23880.7	22628.7	22163.7	16290.1
47.5°	17282.2	17258.3	17666.1	18546.1	20244.0	22464.2	25969.7	27491.2	26804.4	26375.1	19034.9
50°	14833.0	14949.9	15591.4	16819.5	18910.9	21944.3	26513.5	29859.2	30231.2	29775.8	21252.7
52.5°	11964.2	11959.4	12965.8	14632.7	16936.4	20799.6	26134.3	30288.5	31344.9	30996.7	22344.9
55°	8854.5	8916.5	9963.4	11644.6	14372.8	18710.6	24896.6	29847.3	31769.4	31523.8	23065.1
57°	6586.6	6696.3	7535.8	9314.8	12140.7	16643.0	23248.8	29058.0	31936.3	31802.8	23663.7
57.5°	6147.8	6152.6	6970.6	8587.4	11487.3	15848.9	22776.6	28728.9	31931.6	31857.6	23761.5
60°	3784.6	3903.8	4469.0	5804.4	8408.6	12369.6	19612.0	26837.8	31683.6	31790.9	24178.8
62.5°	2265.5	2315.6	2682.8	3498.4	5420.5	9028.6	16049.2	24417.3	31037.3	31364.0	24150.2
65°	1457.1	1469.0	1635.9	2117.6	3388.7	6102.5	12367.2	21219.3	29365.6	29966.5	23205.8
67.5°	1125.6	1144.7	1211.4	1390.3	1965.0	3801.3	8747.2	17806.8	26661.3	27436.3	20916.5
70°	999.2	1008.7	1032.6	1089.8	1299.7	2146.3	5442.0	13910.1	22108.9	22328.2	16368.8
72.5°	815.6	841.8	915.7	934.8	1030.2	1340.2	3028.6	9336.2	14854.5	14909.3	9157.4
75°	632.0	636.7	746.4	801.3	868.0	922.9	1352.1	4707.5	7135.1	6753.6	3529.4
77.5°	472.2	493.6	543.7	612.9	708.3	660.6	605.7	1774.2	2215.4	2174.9	1025.4
80°	302.9	314.8	379.2	460.3	550.9	431.6	341.0	519.9	486.5	500.8	245.6
82.5°	152.6	155.0	243.2	374.4	350.6	217.0	214.6	212.2	181.2	178.9	114.5
85°	16.7	35.8	157.4	214.6	157.4	71.5	100.2	97.8	95.4	97.8	66.8
87.5°	2.4	2.4	26.2	31.0	21.5	23.8	28.6	31.0	38.2	35.8	28.6
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°	2892.7	2892.7	2892.7	2892.7	2892.7	2892.7	2892.7	2892.7	2892.7	2892.7	2892.7
2.5°	2978.5	2883.1	2706.7	2537.4	2411.0	2329.9	2225.0	2186.8	2132.0	2124.8	2098.6
5°	3107.3	2926.1	2618.4	2375.2	2179.6	2031.8	1903.0	1795.7	1709.9	1690.8	1700.3
7.5°	3290.9	3021.5	2592.2	2260.7	1988.9	1736.1	1531.0	1404.6	1314.0	1280.6	1285.4
10°	3498.4	3147.8	2587.4	2139.1	1724.2	1414.1	1190.0	1077.9	1025.4	1006.4	984.9
12.5°	3744.0	3293.3	2575.5	1950.7	1433.2	1128.0	968.2	901.4	851.3	837.0	837.0
15°	4020.7	3448.3	2518.3	1717.0	1163.7	932.4	825.1	772.7	756.0	741.7	741.7
17.5°	4309.2	3600.9	2399.0	1428.5	965.8	798.9	732.1	701.1	677.3	660.6	660.6
20°	4638.3	3751.2	2208.3	1173.3	815.6	713.0	660.6	624.8	605.7	591.4	586.6
22.5°	4950.7	3872.8	1965.0	963.4	710.7	641.5	593.8	555.6	536.6	529.4	529.4
25°	5275.0	3946.7	1671.7	796.5	648.6	581.9	529.4	498.4	481.7	476.9	474.6
27.5°	5589.8	3989.7	1414.1	696.3	591.4	527.0	476.9	453.1	436.4	431.6	434.0
30°	5971.4	3996.8	1163.7	624.8	541.3	474.6	429.3	407.8	398.3	393.5	391.1
32.5°	6357.7	3987.3	977.7	581.9	493.6	429.3	391.1	374.4	367.2	360.1	360.1
35°	6791.7	3937.2	832.3	538.9	448.3	391.1	357.7	343.4	333.9	326.7	324.3
37.5°	7330.7	3911.0	748.8	491.3	407.8	355.3	324.3	310.0	302.9	293.3	290.9
40°	8179.6	4027.8	722.6	448.3	367.2	321.9	293.3	276.6	267.1	257.6	255.2
42.5°	9238.5	4232.9	679.6	405.4	331.5	290.9	262.3	243.2	226.5	214.6	209.9
45°	10609.7	4502.4	612.9	360.1	300.5	257.6	231.3	207.5	186.0	176.5	174.1
47.5°	12047.7	4762.3	553.3	324.3	267.1	228.9	200.3	174.1	155.0	147.9	145.5
50°	12930.0	4814.8	515.1	283.8	233.7	197.9	169.3	145.5	133.5	126.4	126.4
52.5°	13333.0	4731.3	462.6	248.0	202.7	174.1	145.5	126.4	119.2	114.5	112.1
55°	13614.4	4602.5	393.5	214.6	174.1	147.9	128.8	114.5	104.9	100.2	97.8
57°	13779.0	4428.4	341.0	188.4	150.2	128.8	114.5	102.5	93.0	83.5	83.5
57.5°	13786.1	4361.7	326.7	186.0	143.1	124.0	112.1	100.2	88.2	78.7	76.3
60°	13573.9	3903.8	262.3	157.4	114.5	104.9	93.0	78.7	62.0	52.5	50.1
62.5°	12891.9	3321.9	217.0	133.5	93.0	81.1	66.8	59.6	42.9	31.0	31.0
65°	11859.3	2694.7	186.0	107.3	76.3	59.6	45.3	42.9	26.2	14.3	11.9
67.5°	10366.4	2098.6	157.4	88.2	64.4	42.9	31.0	28.6	14.3	4.8	0.0
70°	7898.2	1430.8	131.2	71.5	47.7	31.0	21.5	16.7	9.5	2.4	0.0
72.5°	4552.5	787.0	109.7	54.8	35.8	23.8	16.7	9.5	9.5	0.0	0.0
75°	1626.4	338.6	83.5	40.5	28.6	19.1	11.9	4.8	7.2	2.4	0.0
77.5°	517.5	181.2	54.8	31.0	23.8	14.3	9.5	4.8	4.8	2.4	0.0
80°	152.6	95.4	33.4	26.2	16.7	11.9	7.2	2.4	4.8	2.4	0.0
82.5°	83.5	47.7	26.2	19.1	16.7	9.5	7.2	2.4	2.4	2.4	0.0
85°	42.9	28.6	21.5	19.1	16.7	9.5	7.2	2.4	0.0	2.4	2.4
87.5°	23.8	21.5	21.5	19.1	16.7	11.9	7.2	2.4	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)