

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: P534433

Luminaire Tested: **GALN-SA9D-830-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534433
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9D-830-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33893 lumens
Efficiency: N/A
Efficacy: 61.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

Input Watts (W): 552
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



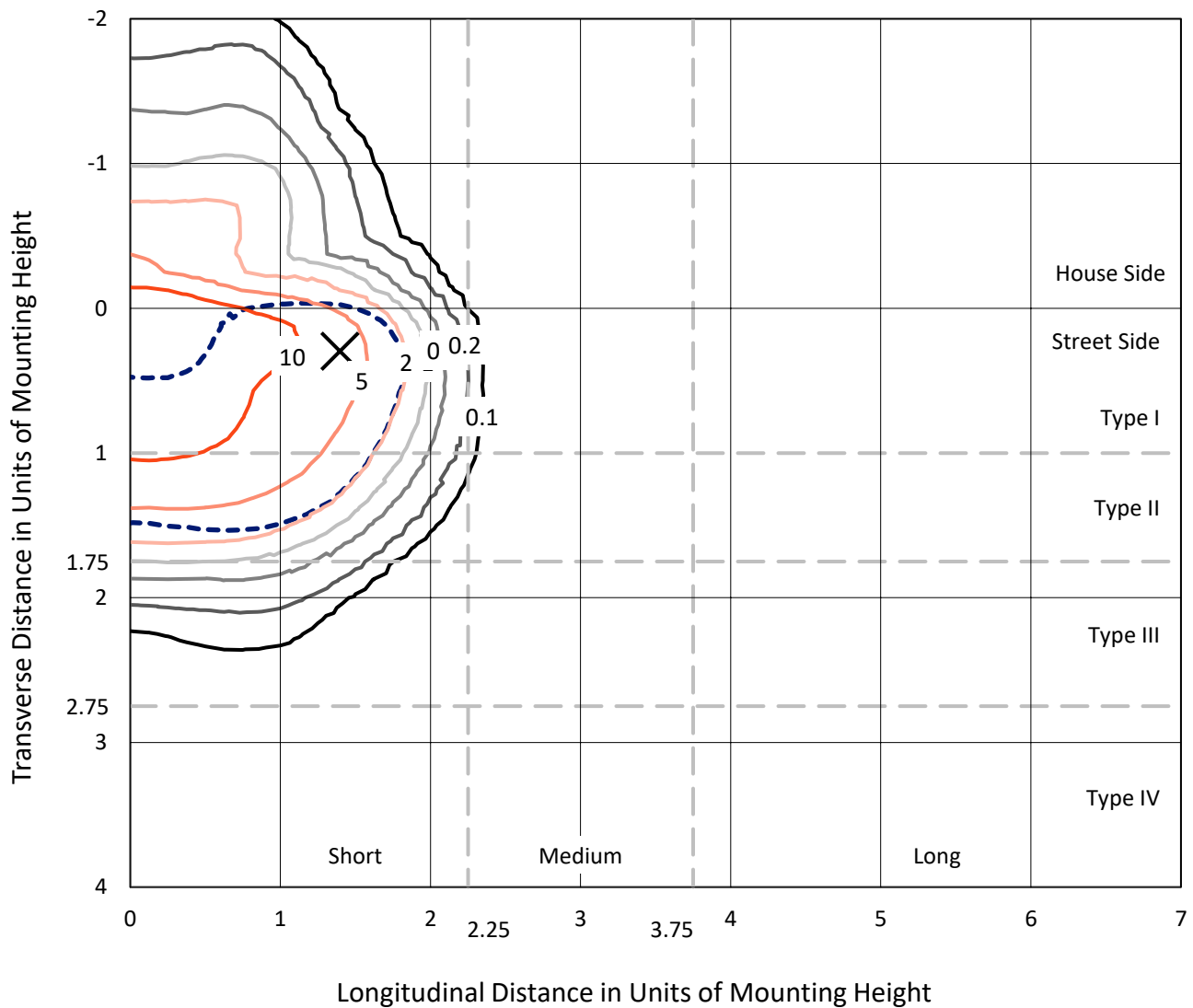
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Iso-Footcandle Lines of Horizontal Illumination

✗ Max cd

--- 1/2 Max cd



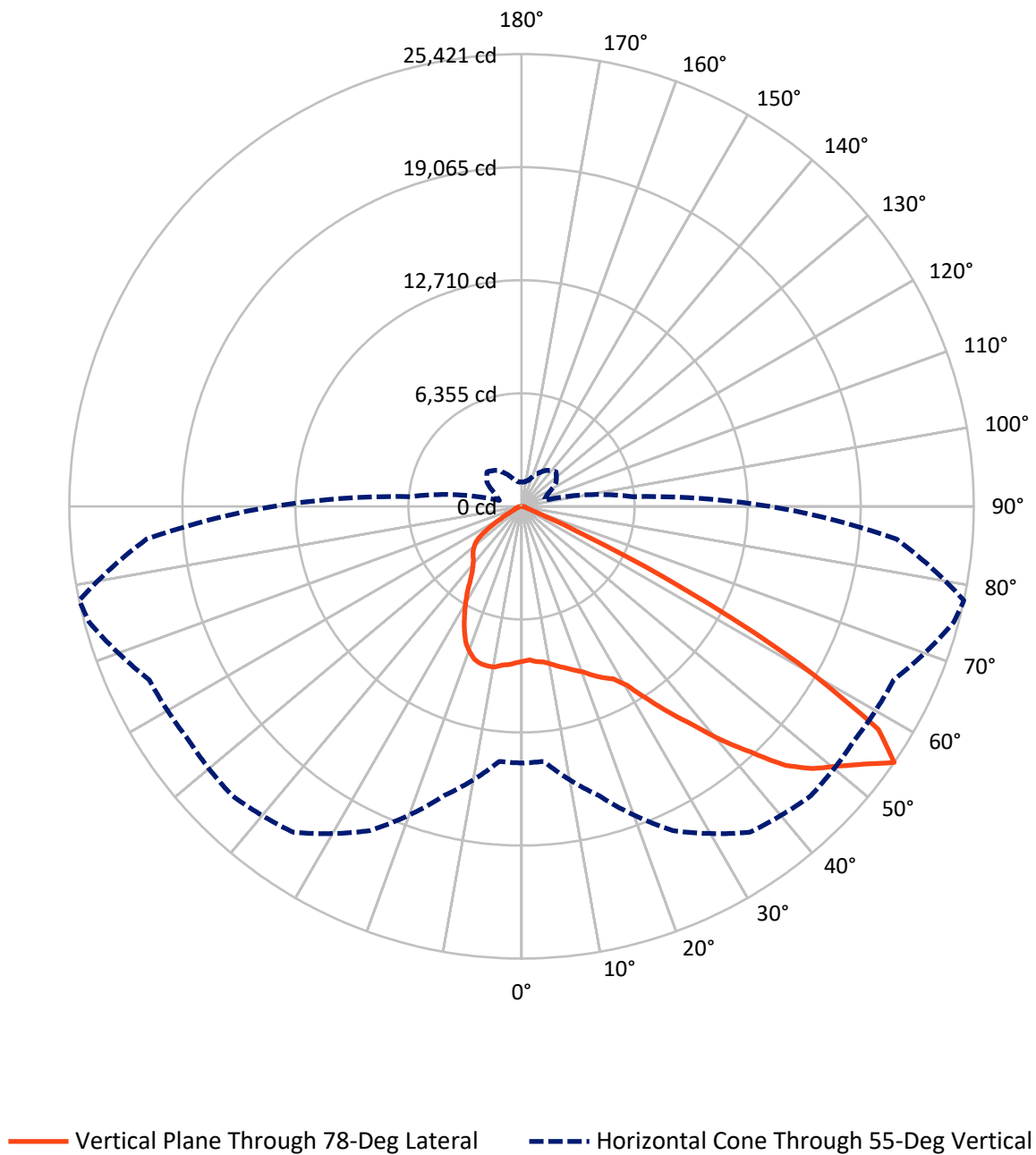
Based on 25 foot mounting height. Maximum calculated value = 15 fc

Type II - Short - N/A

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Luminous Intensity Polar Plot



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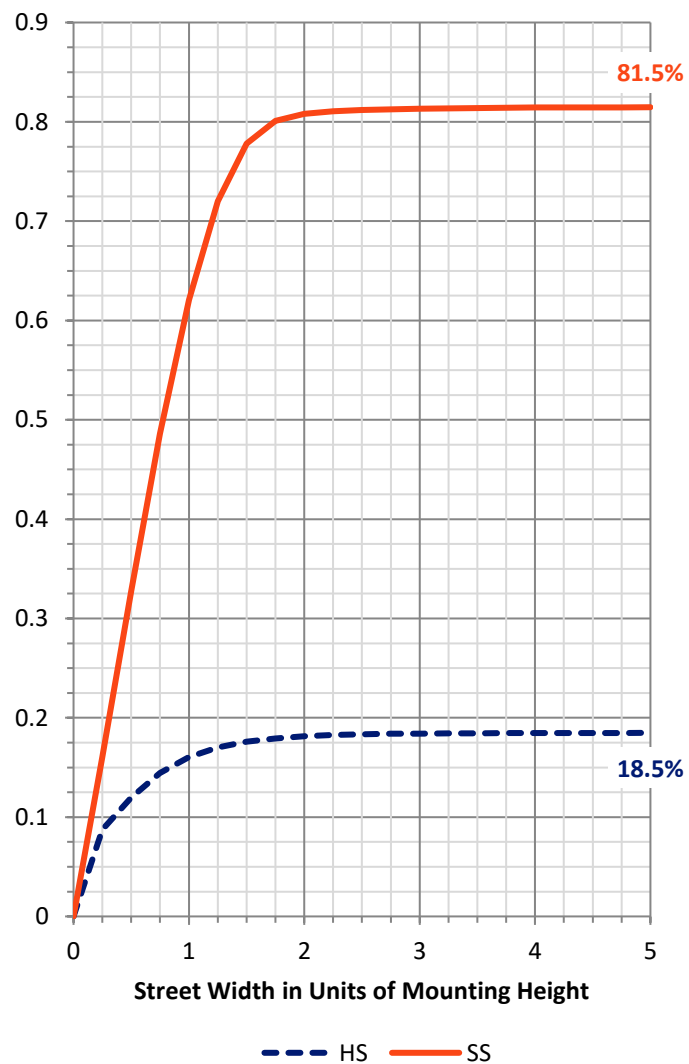
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6295.3	0.0	6295.3
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	27597.7	0.0	27597.7
	% Fixture	81.4	0.0	81.4
Total	Lumens	33893.0	0.0	33893.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	777.0	2.3
10°-20°	2056.3	6.1
20°-30°	3604.4	10.6
30°-40°	5943.2	17.5
40°-50°	8648.2	25.5
50°-60°	9799.3	28.9
60°-70°	2801.8	8.3
70°-80°	217.5	0.6
80°-90°	45.3	0.1
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°	33893.0	100.0
0°-180°	33893.0	100.0

Coefficient of Utilization



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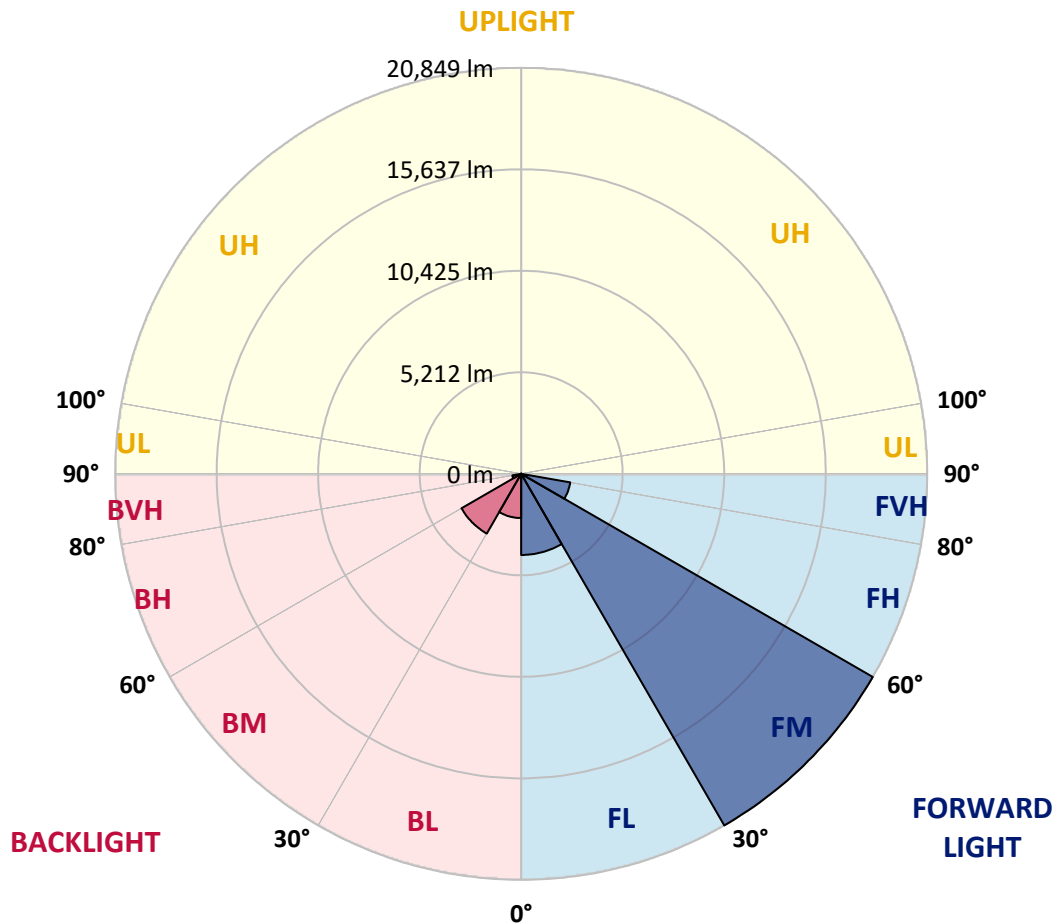
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4166.4	12.3			
FM	(30°-60°)	20849.5	61.5			
FH	(60°-80°)	2559.8	7.6			G2/5000
FVH	(80°-90°)	22.0	0.1			G1/100
BL	(0°-30°)	2271.3	6.7	B3/2500		
BM	(30°-60°)	3541.2	10.4	B3/5000		
BH	(60°-80°)	459.5	1.4	B1/500		G1/500
BVH	(80°-90°)	23.2	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	8713.9	8713.9	8713.9	8713.9	8713.9	8713.9	8713.9	8713.9	8713.9	8713.9	8713.9
2.5°	8192.8	8271.5	8283.7	8380.6	8374.6	8538.2	8586.7	8592.7	8701.8	8647.3	8786.6
5°	7962.5	7920.1	7901.9	8071.6	8120.1	8265.5	8386.7	8459.4	8683.6	8762.4	8907.8
7.5°	7756.5	7756.5	7768.6	7920.1	7901.9	8089.8	8217.0	8441.2	8768.4	8835.1	9010.8
10°	7556.5	7483.8	7574.7	7732.2	7865.5	7950.4	8217.0	8429.1	8810.9	9004.8	9247.2
12.5°	7453.5	7489.8	7502.0	7617.1	7762.5	8017.0	8162.5	8513.9	9113.9	9229.0	9489.6
15°	8101.9	8029.2	7853.4	7750.4	7871.6	7992.8	8356.4	8713.9	9271.4	9435.0	9725.9
17.5°	8853.3	8792.7	8647.3	8368.5	8095.8	8320.0	8604.8	8932.1	9441.1	9683.5	10113.7
20°	9835.0	9738.0	9592.6	9047.2	8810.9	8568.5	8871.5	9259.3	9719.8	9938.0	10380.3
22.5°	11004.5	11004.5	10677.3	10016.8	9525.9	9295.6	9422.9	9647.1	10028.9	10325.8	10762.1
25°	12222.5	12186.1	11889.2	11204.5	10374.3	10101.6	10247.0	10404.6	10507.6	10671.2	10962.1
27.5°	13616.2	13404.2	13028.4	12271.0	11537.8	11010.6	11168.1	11028.7	10901.5	10986.3	11404.4
30°	14561.6	14694.9	14216.2	13489.0	12798.2	12210.4	12240.7	12119.5	11537.8	11658.9	11907.4
32.5°	15543.2	15628.1	15361.4	14961.5	14270.7	13585.9	13337.5	13234.5	12798.2	12852.7	12610.3
35°	16361.3	16524.9	16288.6	16112.9	15912.9	15361.4	14676.7	15010.0	14307.1	14173.7	13543.5
37.5°	17112.7	17064.2	17343.0	17161.2	17118.8	16731.0	15979.5	16046.2	15573.5	15543.2	14816.1
40°	17785.3	17797.5	18179.2	18264.1	18094.4	17403.6	16312.8	16840.0	17221.8	17258.1	16324.9
42.5°	18342.8	18506.5	18833.7	19518.4	19263.9	18112.6	16658.2	17233.9	18651.9	18876.1	17755.0
45°	18827.6	19160.9	19566.9	20178.9	20033.5	19118.5	17518.7	18045.9	20178.9	20766.7	19100.3
47.5°	18857.9	19294.2	19736.6	20645.5	20827.3	19657.8	18409.5	19330.6	21390.9	22027.2	20082.0
50°	18736.7	18967.0	19851.7	20839.5	21251.5	20536.5	19657.8	20409.2	22566.5	22966.4	20578.9
52.5°	17300.6	17476.3	19251.8	21021.2	22015.0	21530.3	21312.1	21912.0	23766.3	24063.2	21045.5
55°	14422.2	14391.9	16834.0	20106.2	22366.5	23002.8	22869.5	23081.6	25154.0	25420.6	21160.6
57.5°	9865.3	10416.7	12525.5	16743.1	20215.3	22657.4	22796.8	22445.3	23536.0	23639.1	18445.9
60°	5320.5	5550.7	7247.5	11174.2	15391.7	18464.0	18827.6	18191.3	18106.5	17815.6	13167.8
62.5°	2114.9	2230.0	3193.5	5532.5	8386.7	11222.6	12004.4	11743.8	11186.3	10422.8	6817.2
65°	1005.9	1078.6	1587.7	2587.5	3720.7	4678.1	5459.8	5702.2	4205.5	3787.3	2248.2
67.5°	684.8	739.3	1157.4	1478.6	1327.1	1387.7	1805.8	1678.5	987.7	842.3	624.2
70°	521.1	557.5	927.1	1005.9	593.9	418.1	466.6	436.3	406.0	412.1	406.0
72.5°	369.6	399.9	678.7	593.9	260.6	193.9	248.4	296.9	296.9	296.9	290.9
75°	224.2	254.5	393.9	230.3	103.0	103.0	157.6	200.0	212.1	218.2	206.0
77.5°	115.1	145.4	133.3	66.7	66.7	78.8	115.1	139.4	151.5	151.5	145.4
80°	24.2	24.2	24.2	36.4	66.7	84.8	115.1	127.3	145.4	145.4	133.3
82.5°	0.0	6.1	18.2	36.4	60.6	78.8	109.1	127.3	145.4	151.5	139.4
85°	0.0	6.1	12.1	24.2	42.4	48.5	42.4	36.4	36.4	36.4	36.4
87.5°	0.0	0.0	6.1	6.1	6.1	12.1	12.1	12.1	12.1	12.1	12.1
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°	8713.9	8713.9	8713.9	8713.9	8713.9	8713.9	8713.9	8713.9	8713.9	8713.9	8713.9
2.5°	8798.7	8816.9	8786.6	8780.6	8756.3	8829.0	8653.3	8610.9	8720.0	8617.0	8641.2
5°	8913.9	8956.3	8901.8	8810.9	8677.6	8471.5	8295.8	8065.5	7956.4	7877.7	7865.5
7.5°	8998.7	9029.0	8974.5	8683.6	8283.7	7762.5	7374.7	7089.9	6865.7	6799.0	6690.0
10°	9344.1	9350.2	9077.5	8435.2	7653.5	6968.7	6374.8	5938.5	5714.3	5575.0	5514.4
12.5°	9574.4	9562.3	9010.8	7944.3	6902.0	5993.1	5314.4	4787.2	4581.2	4514.5	4472.1
15°	9865.3	9798.6	8853.3	7441.4	5932.5	4950.8	4338.8	3975.2	3957.0	3914.6	3957.0
17.5°	10095.5	9907.7	8623.0	6526.3	5005.3	4078.2	3678.3	3702.5	3751.0	3793.4	3799.5
20°	10471.2	10083.4	8095.8	5726.5	4144.9	3496.5	3490.4	3599.5	3720.7	3769.2	3817.6
22.5°	10756.0	10156.1	7532.3	4872.0	3441.9	3260.1	3363.2	3526.8	3617.7	3666.1	3738.9
25°	10859.1	9956.2	6780.9	4017.6	3102.6	3151.1	3308.6	3417.7	3532.8	3587.4	3557.1
27.5°	10962.1	9853.1	5884.0	3308.6	2920.8	3078.3	3211.7	3320.7	3357.1	3429.8	3478.3
30°	11210.5	9495.6	5078.1	2860.2	2829.9	3029.9	3126.8	3163.2	3260.1	3302.6	3302.6
32.5°	11410.5	9356.2	4223.6	2648.1	2817.8	3054.1	3066.2	3066.2	3078.3	3048.1	3035.9
35°	11822.6	8877.5	3460.1	2520.9	2811.7	3060.2	3090.5	2987.5	2708.7	2599.6	2569.3
37.5°	12331.6	8568.5	2896.6	2490.6	2854.1	3132.9	3181.4	2793.5	2430.0	2254.2	2223.9
40°	12949.7	8350.3	2526.9	2478.4	2951.1	3302.6	3157.1	2642.0	2169.4	1914.9	1902.8
42.5°	13670.8	8150.4	2278.5	2472.4	3072.3	3478.3	3132.9	2514.8	1902.8	1733.1	1757.3
45°	14246.5	8041.3	2108.8	2430.0	3114.7	3581.3	3151.1	2290.6	1793.7	1684.6	1696.7
47.5°	14694.9	7811.0	1969.4	2357.2	3108.6	3617.7	2987.5	2199.7	1739.1	1769.4	1799.7
50°	14707.0	7502.0	1793.7	2199.7	3017.8	3551.0	2799.6	2114.9	1727.0	1854.3	1914.9
52.5°	14543.4	7065.7	1605.8	1975.5	2805.7	3320.7	2629.9	2078.5	1672.5	1660.4	1733.1
55°	13961.6	6247.6	1290.7	1599.8	2369.4	2739.0	2478.4	2011.8	1508.9	1369.5	1381.6
57.5°	11283.2	4478.1	951.4	1145.3	1678.5	2005.8	2236.0	1981.5	1357.4	1163.5	1169.5
60°	6986.9	2539.0	696.9	781.7	1036.2	1218.0	1811.9	1842.2	1211.9	981.7	969.6
62.5°	3587.4	1254.4	539.3	551.4	636.3	715.0	1242.2	1545.2	1096.8	933.2	933.2
65°	1199.8	618.1	472.7	424.2	424.2	442.4	751.4	1072.6	927.1	781.7	781.7
67.5°	515.1	460.5	412.1	369.6	339.3	321.2	424.2	624.2	690.8	593.9	569.6
70°	399.9	387.8	357.5	309.0	266.6	242.4	248.4	321.2	393.9	381.8	369.6
72.5°	296.9	296.9	284.8	242.4	206.0	175.7	163.6	169.7	187.9	193.9	200.0
75°	206.0	212.1	212.1	187.9	151.5	127.3	109.1	90.9	72.7	60.6	54.5
77.5°	139.4	145.4	157.6	139.4	115.1	84.8	66.7	48.5	30.3	12.1	12.1
80°	121.2	139.4	151.5	139.4	121.2	90.9	66.7	36.4	18.2	0.0	0.0
82.5°	127.3	139.4	157.6	133.3	115.1	84.8	66.7	42.4	18.2	6.1	0.0
85°	30.3	30.3	36.4	42.4	54.5	60.6	48.5	30.3	18.2	6.1	0.0
87.5°	12.1	12.1	12.1	12.1	12.1	6.1	6.1	6.1	6.1	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)