

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: P533107

Luminaire Tested: **GALN-SA8C-730-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533107
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-SA8C-730-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 1050mA 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: 31443 lumens
Efficiency: N/A
Efficacy: 73.3 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

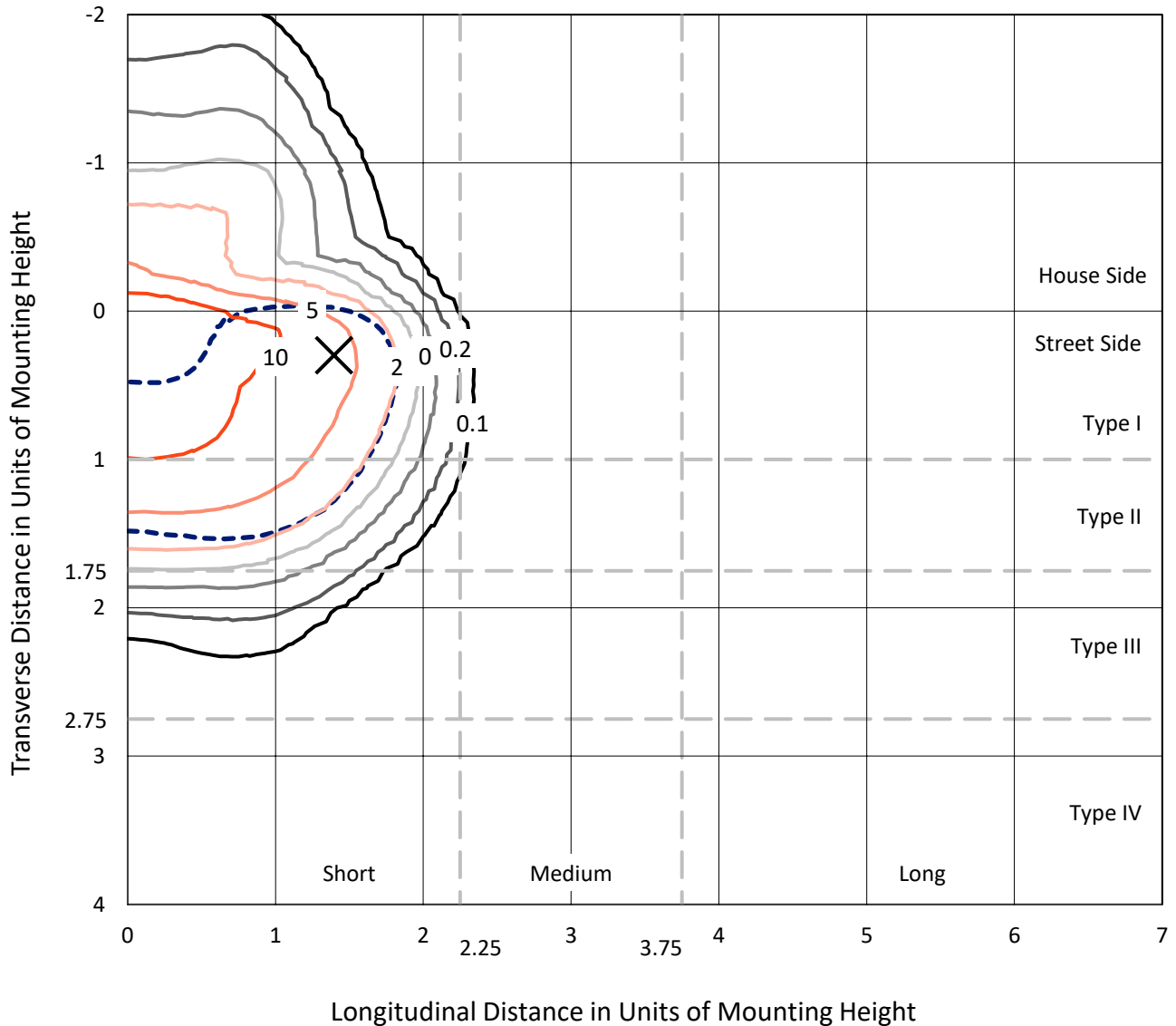
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

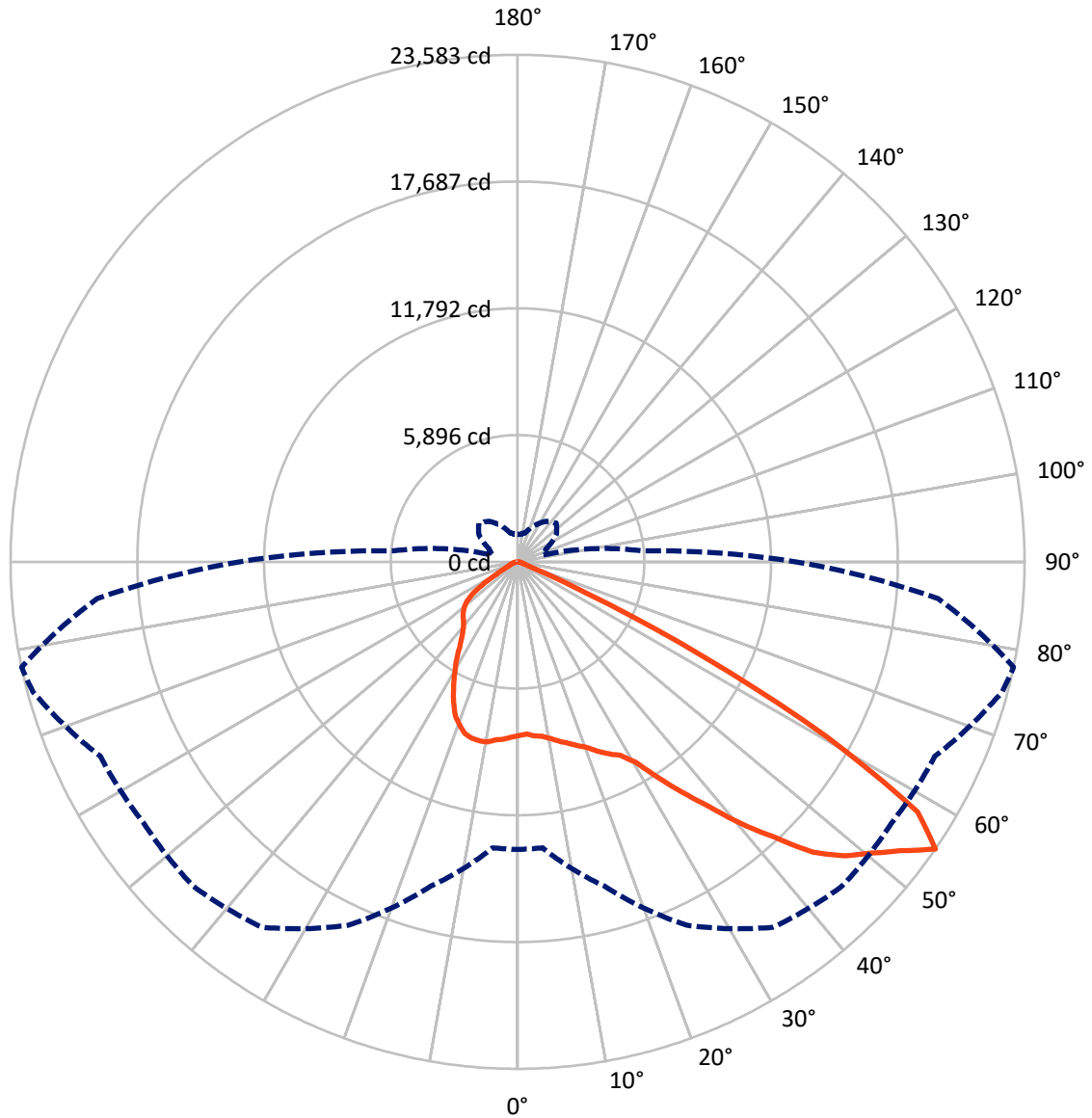
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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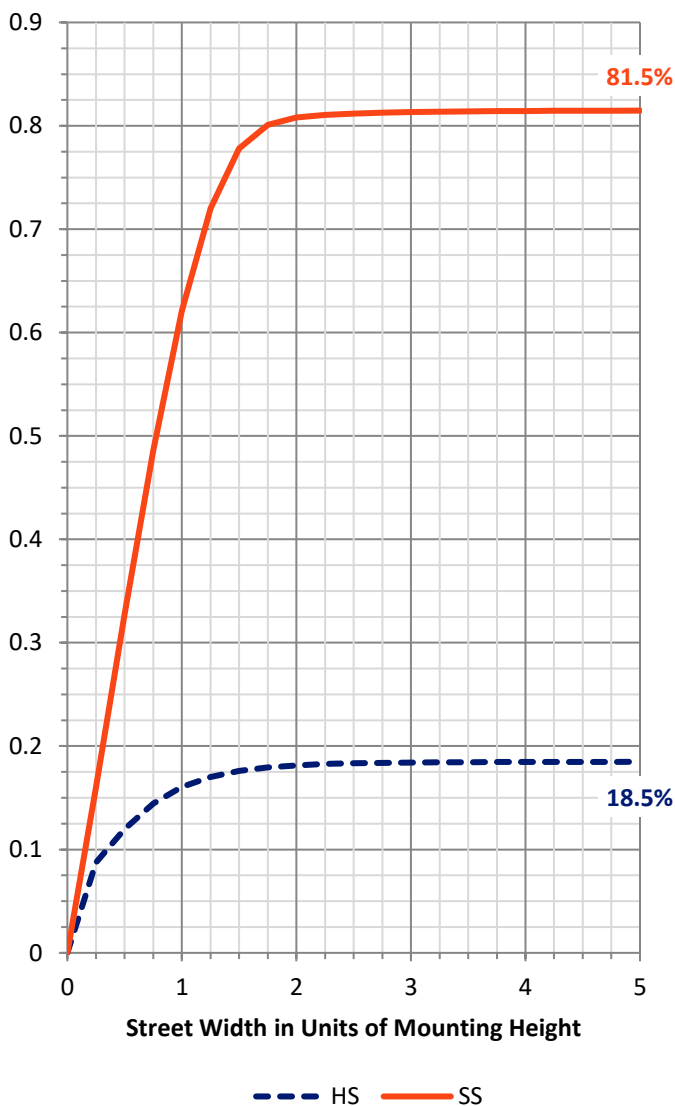
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5840.2	0.0	5840.2
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	25602.8	0.0	25602.8
	% Fixture	81.4	0.0	81.4
Total	Lumens	31443.0	0.0	31443.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	720.8	2.3
10°-20°	1907.7	6.1
20°-30°	3343.9	10.6
30°-40°	5513.6	17.5
40°-50°	8023.0	25.5
50°-60°	9090.9	28.9
60°-70°	2599.3	8.3
70°-80°	201.8	0.6
80°-90°	42.0	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°	31443.0	100.0
0°-180°	31443.0	100.0

Coefficient of Utilization



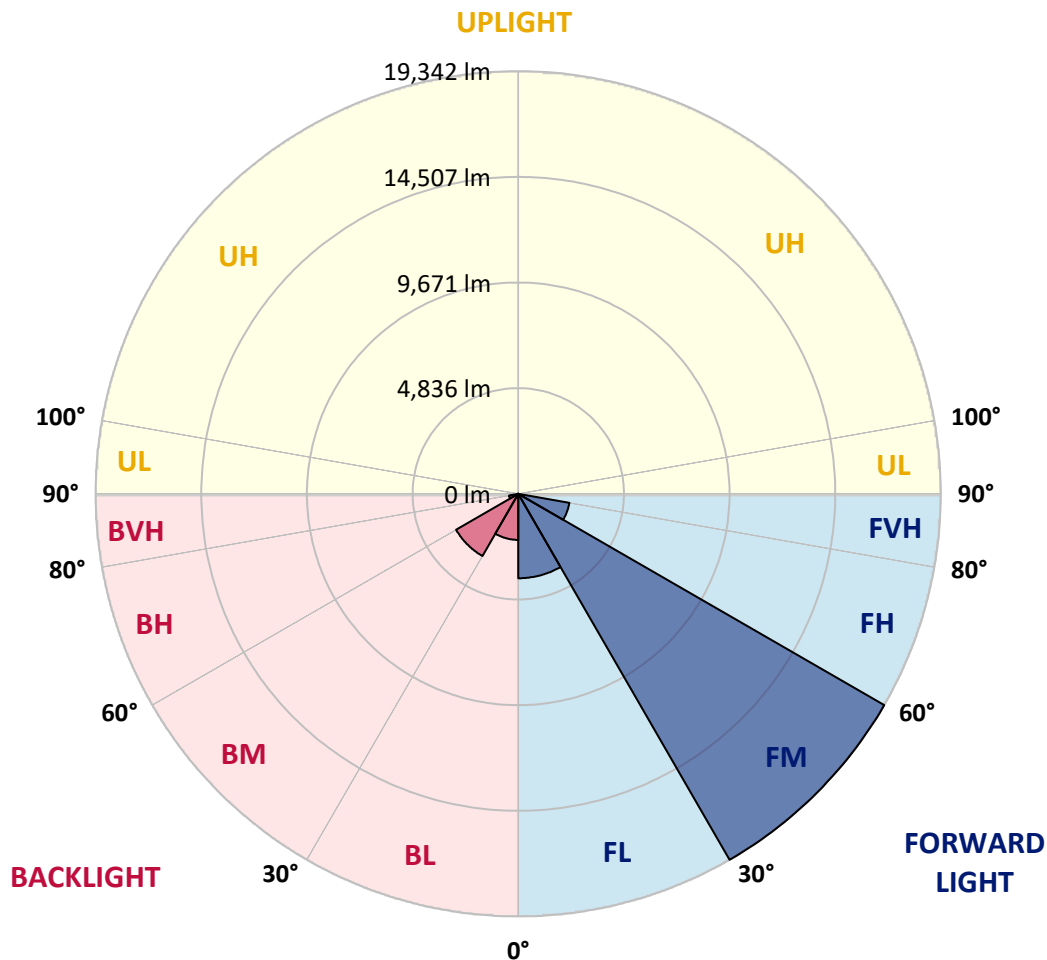
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3865.2	12.3			
FM (30°-60°)	19342.3	61.5			
FH (60°-80°)	2374.8	7.6			G2/5000
FVH (80°-90°)	20.4	0.1			G1/100
BL (0°-30°)	2107.2	6.7	B3/2500		
BM (30°-60°)	3285.2	10.4	B3/5000		
BH (60°-80°)	426.3	1.4	B1/500		G1/500
BVH (80°-90°)	21.5	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°	8084.0	8084.0	8084.0	8084.0	8084.0	8084.0	8084.0	8084.0	8084.0	8084.0	8084.0
2.5°	7600.5	7673.6	7684.9	7774.8	7769.2	7921.0	7966.0	7971.6	8072.8	8022.2	8151.5
5°	7386.9	7347.6	7330.7	7488.1	7533.1	7668.0	7780.4	7847.9	8055.9	8129.0	8263.9
7.5°	7195.8	7195.8	7207.0	7347.6	7330.7	7505.0	7623.0	7831.0	8134.6	8196.4	8359.5
10°	7010.3	6942.8	7027.1	7173.3	7297.0	7375.7	7623.0	7819.8	8174.0	8353.9	8578.7
12.5°	6914.7	6948.4	6959.7	7066.5	7201.4	7437.5	7572.4	7898.5	8455.0	8561.9	8803.6
15°	7516.2	7448.8	7285.7	7190.2	7302.6	7415.0	7752.3	8084.0	8601.2	8753.0	9022.8
17.5°	8213.3	8157.1	8022.2	7763.6	7510.6	7718.6	7982.8	8286.4	8758.6	8983.5	9382.6
20°	9124.0	9034.1	8899.2	8393.2	8174.0	7949.1	8230.2	8590.0	9017.2	9219.6	9630.0
22.5°	10209.0	10209.0	9905.4	9292.7	8837.3	8623.7	8741.8	8949.8	9303.9	9579.4	9984.2
25°	11339.0	11305.3	11029.8	10394.5	9624.4	9371.4	9506.3	9652.5	9748.0	9899.8	10169.7
27.5°	12632.0	12435.2	12086.7	11384.0	10703.7	10214.6	10360.8	10231.5	10113.4	10192.2	10580.1
30°	13509.0	13632.6	13188.5	12513.9	11873.0	11327.7	11355.8	11243.4	10703.7	10816.2	11046.7
32.5°	14419.7	14498.4	14251.0	13880.0	13239.1	12603.9	12373.4	12277.8	11873.0	11923.6	11698.8
35°	15178.6	15330.4	15111.1	14948.1	14762.6	14251.0	13615.8	13925.0	13272.8	13149.2	12564.5
37.5°	15875.7	15830.7	16089.3	15920.7	15881.3	15521.5	14824.4	14886.3	14447.8	14419.7	13745.1
40°	16499.7	16511.0	16865.1	16943.8	16786.4	16145.5	15133.6	15622.7	15976.9	16010.6	15144.9
42.5°	17016.9	17168.7	17472.3	18107.5	17871.4	16803.3	15454.1	15988.1	17303.6	17511.6	16471.6
45°	17466.6	17775.8	18152.5	18720.3	18585.4	17736.5	16252.4	16741.4	18720.3	19265.6	17719.6
47.5°	17494.8	17899.5	18309.9	19153.2	19321.8	18236.8	17078.7	17933.2	19844.6	20434.9	18630.3
50°	17382.3	17595.9	18416.7	19333.0	19715.3	19052.0	18236.8	18933.9	20935.2	21306.3	19091.3
52.5°	16050.0	16213.0	17860.2	19501.7	20423.7	19973.9	19771.5	20328.1	22048.3	22323.8	19524.2
55°	13379.7	13351.6	15617.1	18652.8	20749.7	21340.0	21216.3	21413.1	23335.7	23583.1	19631.0
57.5°	9152.1	9663.7	11620.1	15532.8	18754.0	21019.6	21148.9	20822.8	21834.7	21930.3	17112.5
60°	4935.9	5149.5	6723.6	10366.4	14279.1	17129.3	17466.6	16876.4	16797.7	16527.8	12216.0
62.5°	1962.0	2068.8	2962.6	5132.6	7780.4	10411.4	11136.6	10894.9	10377.7	9669.3	6324.4
65°	933.2	1000.7	1472.9	2400.5	3451.7	4340.0	5065.2	5290.0	3901.5	3513.6	2085.7
67.5°	635.3	685.8	1073.7	1371.7	1231.2	1287.4	1675.3	1557.2	916.3	781.4	579.0
70°	483.5	517.2	860.1	933.2	550.9	387.9	432.9	404.8	376.7	382.3	376.7
72.5°	342.9	371.0	629.6	550.9	241.7	179.9	230.5	275.5	275.5	275.5	269.8
75°	208.0	236.1	365.4	213.6	95.6	95.6	146.2	185.5	196.8	202.4	191.1
77.5°	106.8	134.9	123.7	61.8	61.8	73.1	106.8	129.3	140.5	140.5	134.9
80°	22.5	22.5	22.5	33.7	61.8	78.7	106.8	118.1	134.9	134.9	123.7
82.5°	0.0	5.6	16.9	33.7	56.2	73.1	101.2	118.1	134.9	140.5	129.3
85°	0.0	5.6	11.2	22.5	39.4	45.0	39.4	33.7	33.7	33.7	33.7
87.5°	0.0	0.0	5.6	5.6	5.6	11.2	11.2	11.2	11.2	11.2	11.2
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°	8084.0	8084.0	8084.0	8084.0	8084.0	8084.0	8084.0	8084.0	8084.0	8084.0	8084.0
2.5°	8162.7	8179.6	8151.5	8145.9	8123.4	8190.8	8027.8	7988.4	8089.6	7994.1	8016.6
5°	8269.5	8308.9	8258.3	8174.0	8050.3	7859.1	7696.1	7482.5	7381.3	7308.2	7297.0
7.5°	8348.2	8376.3	8325.7	8055.9	7684.9	7201.4	6841.6	6577.4	6369.4	6307.6	6206.4
10°	8668.7	8674.3	8421.3	7825.4	7100.2	6465.0	5914.0	5509.3	5301.3	5172.0	5115.8
12.5°	8882.3	8871.1	8359.5	7370.1	6403.1	5559.9	4930.2	4441.1	4250.0	4188.2	4148.8
15°	9152.1	9090.3	8213.3	6903.5	5503.7	4592.9	4025.1	3687.8	3671.0	3631.6	3671.0
17.5°	9365.8	9191.5	7999.7	6054.6	4643.5	3783.4	3412.4	3434.9	3479.8	3519.2	3524.8
20°	9714.3	9354.5	7510.6	5312.5	3845.2	3243.7	3238.1	3339.3	3451.7	3496.7	3541.7
22.5°	9978.5	9422.0	6987.8	4519.9	3193.1	3024.5	3120.0	3271.8	3356.2	3401.1	3468.6
25°	10074.1	9236.5	6290.7	3727.2	2878.3	2923.3	3069.5	3170.6	3277.5	3328.1	3299.9
27.5°	10169.7	9140.9	5458.7	3069.5	2709.7	2855.8	2979.5	3080.7	3114.4	3181.9	3226.9
30°	10400.2	8809.2	4711.0	2653.4	2625.3	2810.9	2900.8	2934.5	3024.5	3063.8	3063.8
32.5°	10585.7	8679.9	3918.3	2456.7	2614.1	2833.3	2844.6	2844.6	2855.8	2827.7	2816.5
35°	10967.9	8235.8	3210.0	2338.6	2608.5	2839.0	2867.1	2771.5	2512.9	2411.7	2383.6
37.5°	11440.2	7949.1	2687.2	2310.5	2647.8	2906.4	2951.4	2591.6	2254.3	2091.3	2063.2
40°	12013.6	7746.7	2344.3	2299.3	2737.8	3063.8	2928.9	2451.1	2012.6	1776.5	1765.2
42.5°	12682.6	7561.2	2113.8	2293.7	2850.2	3226.9	2906.4	2333.0	1765.2	1607.8	1630.3
45°	13216.6	7460.0	1956.4	2254.3	2889.6	3322.4	2923.3	2125.0	1664.0	1562.8	1574.1
47.5°	13632.6	7246.4	1827.1	2186.8	2883.9	3356.2	2771.5	2040.7	1613.4	1641.5	1669.6
50°	13643.9	6959.7	1664.0	2040.7	2799.6	3294.3	2597.2	1962.0	1602.2	1720.2	1776.5
52.5°	13492.1	6554.9	1489.8	1832.7	2602.9	3080.7	2439.8	1928.2	1551.6	1540.3	1607.8
55°	12952.4	5796.0	1197.4	1484.1	2198.1	2541.0	2299.3	1866.4	1399.8	1270.5	1281.7
57.5°	10467.6	4154.4	882.6	1062.5	1557.2	1860.8	2074.4	1838.3	1259.3	1079.4	1085.0
60°	6481.8	2355.5	646.5	725.2	961.3	1130.0	1680.9	1709.0	1124.3	910.7	899.5
62.5°	3328.1	1163.7	500.3	511.6	590.3	663.4	1152.4	1433.5	1017.5	865.7	865.7
65°	1113.1	573.4	438.5	393.5	393.5	410.4	697.1	995.0	860.1	725.2	725.2
67.5°	477.8	427.2	382.3	342.9	314.8	298.0	393.5	579.0	640.9	550.9	528.4
70°	371.0	359.8	331.7	286.7	247.4	224.9	230.5	298.0	365.4	354.2	342.9
72.5°	275.5	275.5	264.2	224.9	191.1	163.0	151.8	157.4	174.3	179.9	185.5
75°	191.1	196.8	196.8	174.3	140.5	118.1	101.2	84.3	67.5	56.2	50.6
77.5°	129.3	134.9	146.2	129.3	106.8	78.7	61.8	45.0	28.1	11.2	11.2
80°	112.4	129.3	140.5	129.3	112.4	84.3	61.8	33.7	16.9	0.0	0.0
82.5°	118.1	129.3	146.2	123.7	106.8	78.7	61.8	39.4	16.9	5.6	0.0
85°	28.1	28.1	33.7	39.4	50.6	56.2	45.0	28.1	16.9	5.6	0.0
87.5°	11.2	11.2	11.2	11.2	11.2	5.6	5.6	5.6	5.6	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)