

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: P647127

Luminaire Tested: **GALN-SA8C-835-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647127
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8C-835-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39061.5 lumens
Efficiency: N/A
Efficacy: 91.1 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

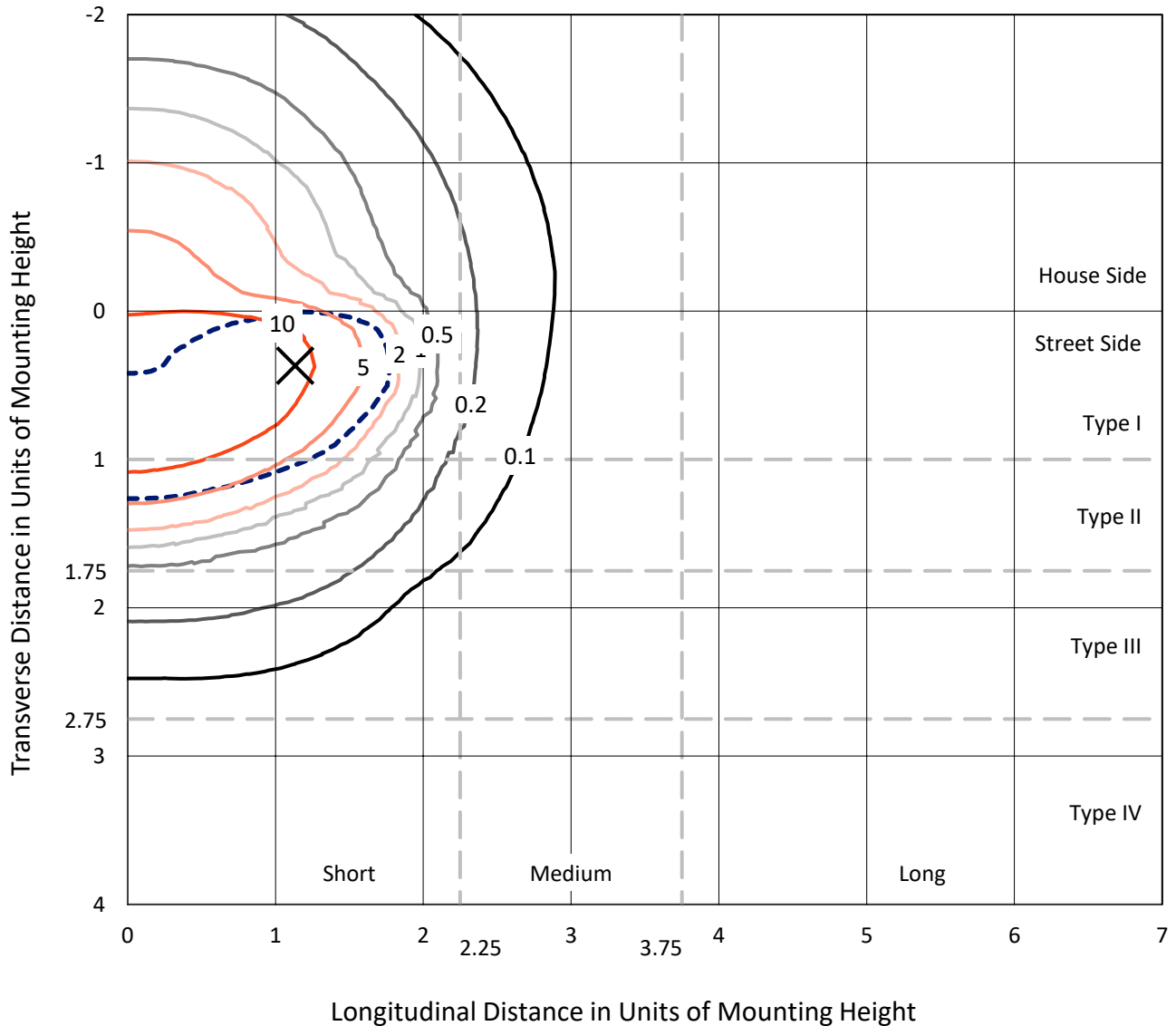
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

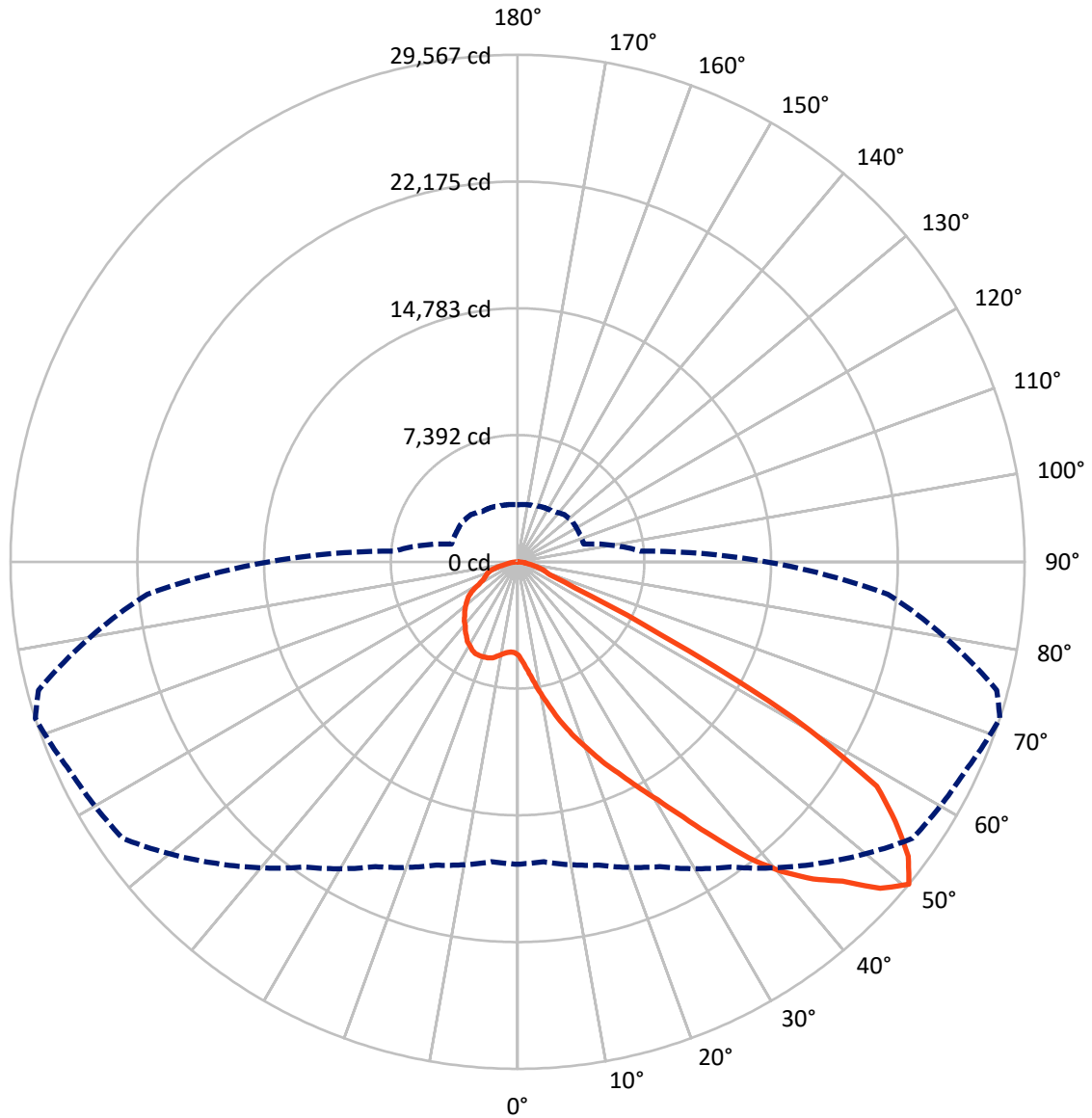
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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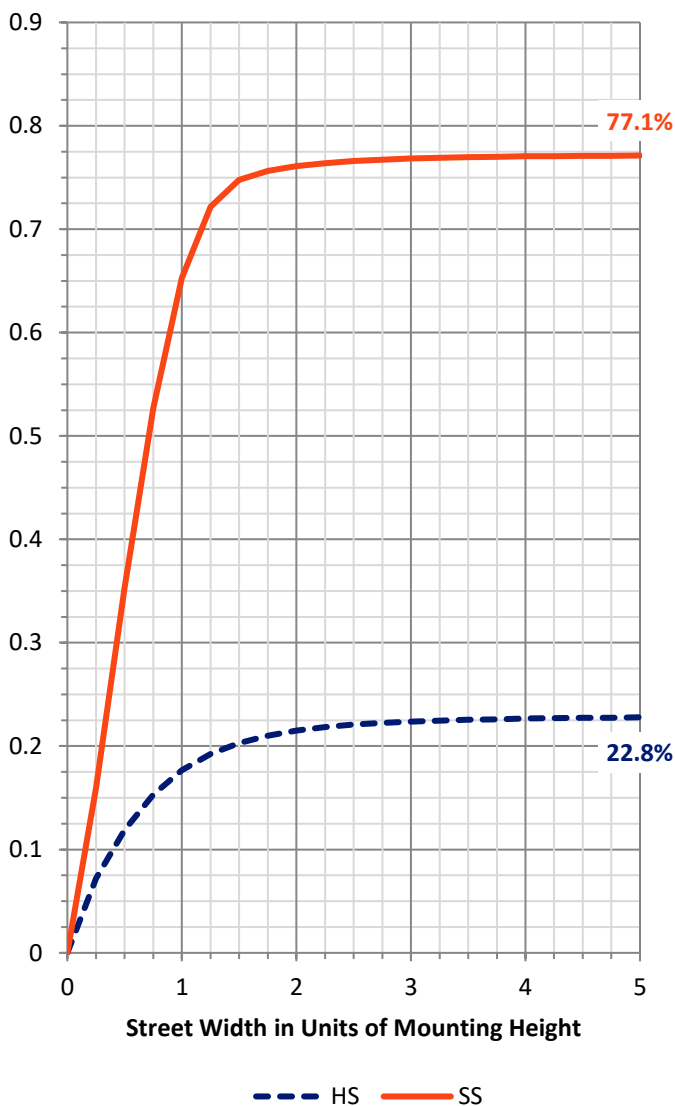
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8949.2	0.0	8949.2
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	30112.3	0.0	30112.3
	% Fixture	77.1	0.0	77.1
Total	Lumens	39061.5	0.0	39061.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	639.6	1.6
10°-20°	2391.1	6.1
20°-30°	4636.1	11.9
30°-40°	7680.5	19.7
40°-50°	10746.7	27.5
50°-60°	9066.2	23.2
60°-70°	2763.4	7.1
70°-80°	969.5	2.5
80°-90°	168.5	0.4
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°	39061.5	100.0
0°-180°	39061.5	100.0

Coefficient of Utilization

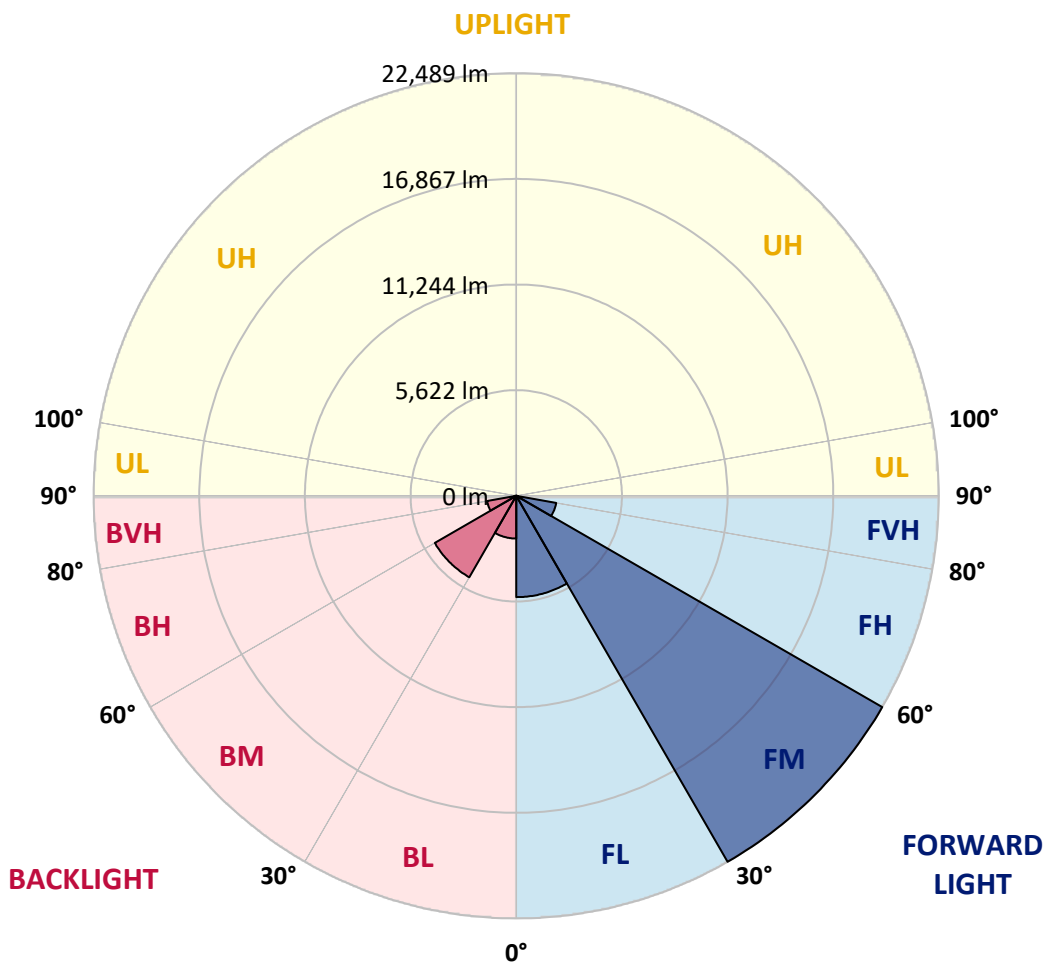


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5391.9	13.8			
FM (30°-60°)	22488.8	57.6			
FH (60°-80°)	2156.1	5.5			G2/5000
FVH (80°-90°)	75.5	0.2			G1/100
BL (0°-30°)	2274.9	5.8	B3/2500		
BM (30°-60°)	5004.6	12.8	B4/8500		
BH (60°-80°)	1576.7	4.0	B3/2500		G3/2500
BVH (80°-90°)	93.0	0.2			G1/100
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°	55°	65°	72°	75°	85°
0°	5437.7	5437.7	5437.7	5437.7	5437.7	5437.7	5437.7	5437.7	5437.7	5437.7	5437.7
2.5°	6994.1	6950.6	6820.1	6776.6	6621.9	6341.6	6244.9	5959.7	5838.9	5727.7	5597.2
5°	8845.3	8642.3	8627.8	8381.3	8023.6	7815.7	7197.1	6781.4	6399.5	6206.2	5848.5
7.5°	10024.7	10029.5	10029.5	9826.5	9541.3	9014.5	8458.7	7709.4	7134.2	6849.1	6240.0
10°	11146.1	11049.4	10996.2	10976.9	10783.6	10271.2	9676.7	8748.6	7960.8	7627.3	6534.9
12.5°	11938.8	11856.6	11977.4	11914.6	11774.4	11440.9	10880.3	9821.7	8835.7	8386.2	7008.6
15°	12315.8	12373.7	12470.4	12644.4	12581.6	12456.0	11837.2	10923.7	9778.2	9270.6	7429.1
17.5°	12895.8	12736.3	12852.3	13069.8	13243.8	13185.8	12833.0	11721.3	10711.0	10087.5	7994.6
20°	13301.8	13210.0	13268.0	13519.4	13649.8	13978.5	13794.8	12765.3	11605.2	10947.9	8661.6
22.5°	14461.9	14326.6	14138.0	14176.7	14225.0	14457.0	14500.5	13910.9	12644.4	11948.4	9294.8
25°	15892.6	15766.9	15544.6	15317.4	15177.2	15133.7	15283.5	14809.9	13640.2	12920.0	9976.4
27.5°	17468.3	17255.6	17115.4	16646.6	16269.6	16211.6	16139.1	15882.9	14819.5	14041.3	10744.9
30°	19000.5	18831.4	18642.8	17893.7	17502.2	17439.3	17081.6	17154.1	16100.4	15235.2	11614.9
32.5°	20160.5	20175.1	19744.9	19179.4	18812.0	18478.5	18348.0	18555.8	17743.8	17047.8	12586.5
35°	21098.2	21141.8	20730.9	20218.5	19822.2	20054.2	19996.3	20092.9	19706.2	18855.5	13717.5
37.5°	22011.8	21794.3	21354.4	21108.0	20900.1	21281.9	21774.9	21857.1	21929.6	20929.1	15032.2
40°	22161.6	22181.0	21924.8	22098.8	21837.8	22413.0	23558.5	23452.2	23747.1	22872.1	16458.1
42.5°	21949.0	21992.4	22094.0	22340.5	22968.8	23660.0	25361.4	24926.4	25284.1	24505.9	17845.3
45°	21600.9	21422.1	21547.8	22485.5	23573.0	25110.1	27009.7	26671.3	26555.3	25902.7	19498.3
47.5°	19938.2	20121.9	20513.4	21668.6	23302.3	25361.4	28179.4	28102.0	28450.0	27990.8	21001.6
50°	17632.6	17560.1	18314.1	19614.4	21721.8	24868.4	28116.5	28817.4	29566.5	28928.6	21673.4
52.5°	13205.1	13591.9	14239.5	15853.9	18860.4	22181.0	26743.8	27913.5	28522.5	28387.2	21132.1
55°	8347.5	8463.4	8855.0	10773.9	13480.7	17801.8	22925.3	25636.9	26724.5	27232.0	20634.2
57.5°	4055.3	3837.8	4316.3	5858.2	7786.8	11972.6	17681.0	22330.8	24694.4	25612.8	19551.5
60°	2117.1	2199.2	2387.8	2938.8	4026.3	6215.9	11020.4	14882.4	18493.0	19904.4	14819.5
62.5°	1754.5	1783.6	1909.3	2184.7	2677.8	3576.8	5626.2	7255.1	9430.1	10701.4	8429.6
65°	1488.7	1503.2	1638.6	1822.2	2136.4	2518.3	2895.3	3030.6	3668.7	3765.3	2996.8
67.5°	1242.2	1256.7	1401.7	1575.7	1778.7	1880.2	1976.9	1967.2	2039.7	2010.7	2005.9
70°	957.1	971.5	1121.4	1305.0	1406.6	1348.6	1648.2	1715.9	1744.9	1769.0	1807.7
72.5°	691.2	720.2	836.2	966.7	913.5	1048.9	1358.2	1459.7	1498.3	1512.9	1561.2
75°	502.7	512.3	541.4	502.7	580.0	729.8	957.1	1082.7	1131.0	1145.5	1218.0
77.5°	222.4	227.1	232.0	290.0	372.2	454.4	570.3	671.9	739.5	758.9	778.2
80°	116.0	120.8	149.9	198.2	265.8	333.5	415.7	473.7	517.2	522.0	541.4
82.5°	72.5	77.4	106.3	140.2	188.5	246.5	304.5	352.8	386.6	391.5	396.4
85°	33.8	43.5	62.8	87.0	125.7	159.5	164.4	140.2	149.9	154.6	145.0
87.5°	9.6	14.5	19.3	14.5	19.3	19.3	24.2	29.0	29.0	29.0	33.8
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°	5437.7	5437.7	5437.7	5437.7	5437.7	5437.7	5437.7	5437.7	5437.7	5437.7	5437.7
2.5°	5524.7	5481.2	5312.0	5249.2	5084.9	5113.9	5026.9	5022.0	5002.7	4997.8	4993.0
5°	5660.1	5524.7	5321.7	5167.0	5075.2	5065.5	5002.7	5002.7	5022.0	5036.5	5002.7
7.5°	5882.4	5727.7	5384.5	5239.5	5157.4	5142.8	5099.4	5065.5	5109.0	5094.5	5055.8
10°	6138.6	5867.9	5505.4	5379.7	5244.4	5210.6	5210.6	5225.0	5152.5	5176.7	5138.0
12.5°	6423.7	6061.2	5660.1	5515.1	5355.6	5336.2	5326.5	5220.2	5258.9	5239.5	5142.8
15°	6786.3	6283.6	5858.2	5611.7	5476.4	5389.4	5263.7	5244.4	5220.2	5171.9	5128.3
17.5°	7177.8	6525.2	5950.0	5640.7	5437.7	5374.8	5278.2	5176.7	5104.2	5113.9	5080.0
20°	7511.2	6747.6	5983.9	5669.7	5408.7	5287.8	5138.0	5075.2	4997.8	4993.0	4988.2
22.5°	7907.6	7047.2	6032.2	5592.3	5321.7	5196.0	5094.5	4983.3	4930.2	4862.5	4896.3
25°	8381.3	7163.3	6041.9	5548.9	5258.9	5036.5	4983.3	4862.5	4843.2	4746.5	4765.8
27.5°	8724.5	7226.1	5964.6	5413.5	5113.9	4944.6	4848.0	4761.0	4727.2	4654.7	4635.4
30°	9183.7	7322.8	5800.2	5244.4	4968.8	4780.4	4722.4	4703.0	4606.3	4529.0	4519.3
32.5°	9705.7	7385.6	5693.9	5070.3	4819.0	4674.0	4703.0	4611.2	4490.3	4422.7	4403.4
35°	10121.4	7409.8	5428.0	4872.1	4717.5	4625.7	4591.8	4572.5	4398.5	4335.6	4287.3
37.5°	10754.6	7356.6	5205.7	4732.0	4606.3	4572.5	4543.5	4413.0	4214.8	4123.0	4055.3
40°	11494.0	7342.1	4920.5	4533.8	4500.0	4538.7	4451.7	4248.6	3973.2	3871.6	3823.3
42.5°	12204.6	7443.6	4741.7	4427.5	4384.0	4398.5	4277.7	3973.2	3837.8	3779.8	3702.5
45°	13393.7	7656.3	4446.8	4263.1	4243.8	4234.2	4089.1	3770.1	3692.8	3620.3	3605.8
47.5°	14466.7	7516.1	4258.3	4094.0	4113.3	4060.2	3750.8	3649.3	3562.3	3489.8	3465.6
50°	14529.5	7182.6	3992.4	3963.5	3968.3	3876.5	3581.6	3513.9	3402.8	3354.5	3320.6
52.5°	14200.9	6636.4	3746.0	3755.7	3770.1	3620.3	3373.8	3325.5	3233.6	3166.0	3146.6
55°	13277.6	5785.7	3504.3	3543.0	3581.6	3296.4	3219.1	3098.3	3025.7	2929.1	2933.9
57.5°	11697.1	4659.5	3166.0	3228.8	3310.9	2996.8	2938.8	2789.0	2682.6	2605.3	2595.6
60°	7839.9	3315.8	2658.4	2682.6	2866.2	2740.6	2735.8	2585.9	2440.9	2373.3	2334.6
62.5°	4625.7	2532.8	2295.9	2271.7	2266.9	2339.4	2460.3	2407.1	2218.6	2088.1	2126.7
65°	2421.6	2189.6	2136.4	2054.3	2005.9	1986.5	2078.4	2102.6	1976.9	1836.8	1827.1
67.5°	2034.9	2034.9	1991.4	1962.4	1894.7	1812.6	1754.5	1677.3	1657.9	1619.2	1570.9
70°	1851.2	1899.6	1885.1	1817.4	1759.4	1667.6	1517.7	1392.0	1271.2	1227.7	1256.7
72.5°	1614.4	1662.7	1662.7	1628.9	1551.6	1411.4	1266.3	1121.4	1019.9	942.5	932.9
75°	1242.2	1266.3	1324.4	1285.7	1184.2	1097.2	947.4	797.6	700.9	628.4	613.9
77.5°	792.7	831.4	831.4	826.5	754.0	671.9	575.2	468.9	396.4	343.2	328.7
80°	526.9	551.0	570.3	551.0	502.7	439.8	367.4	294.9	241.7	198.2	188.5
82.5°	386.6	415.7	430.2	410.8	362.5	314.1	261.0	207.8	154.6	120.8	111.2
85°	149.9	154.6	174.0	207.8	203.0	198.2	159.5	116.0	87.0	62.8	58.0
87.5°	38.7	33.8	38.7	38.7	33.8	29.0	29.0	29.0	29.0	14.5	19.3
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)