

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: P647443

Luminaire Tested: **GALN-SA5D-835-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647443
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5D-835-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29692.2 lumens
Efficiency: N/A
Efficacy: 96.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

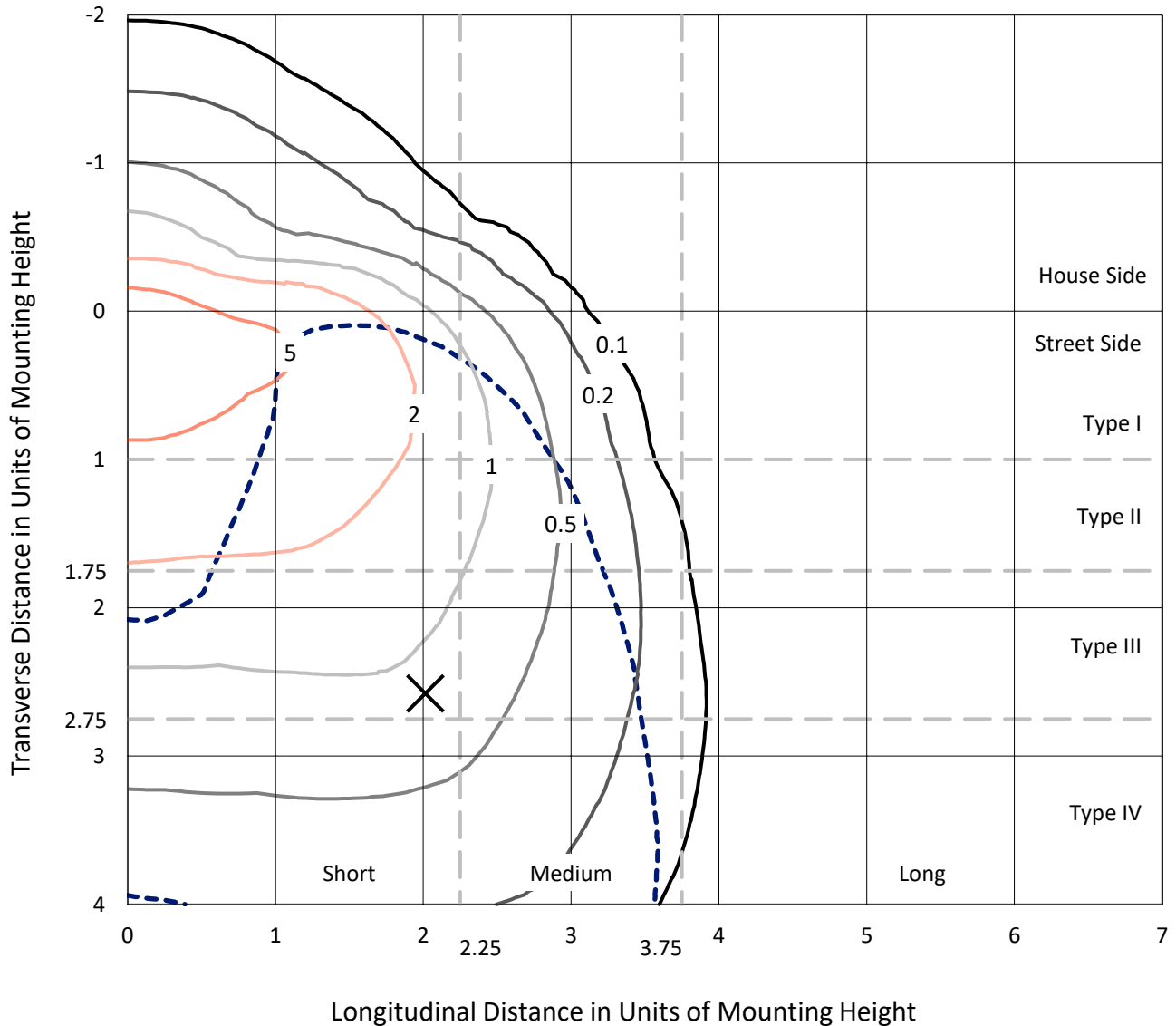
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

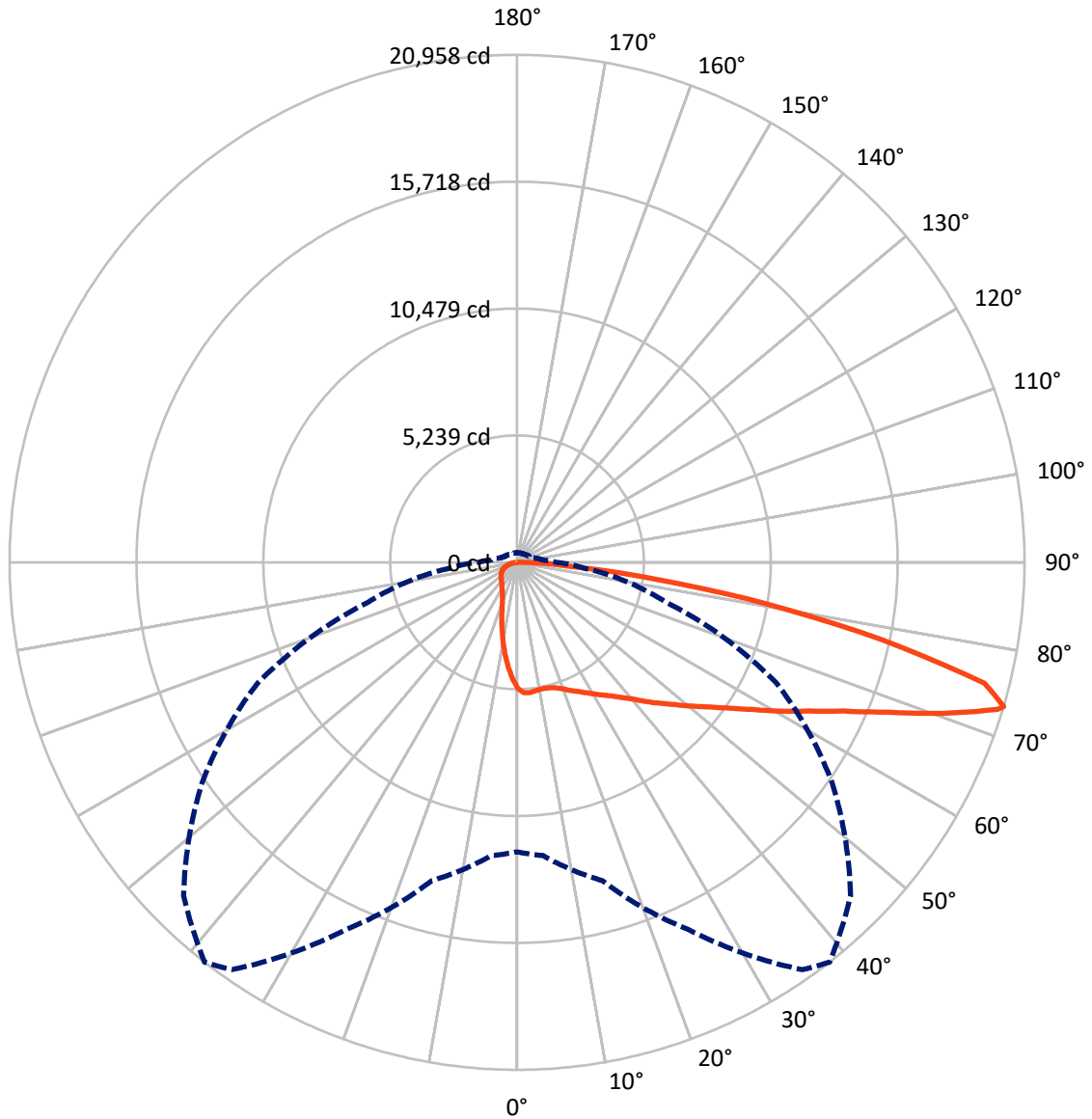
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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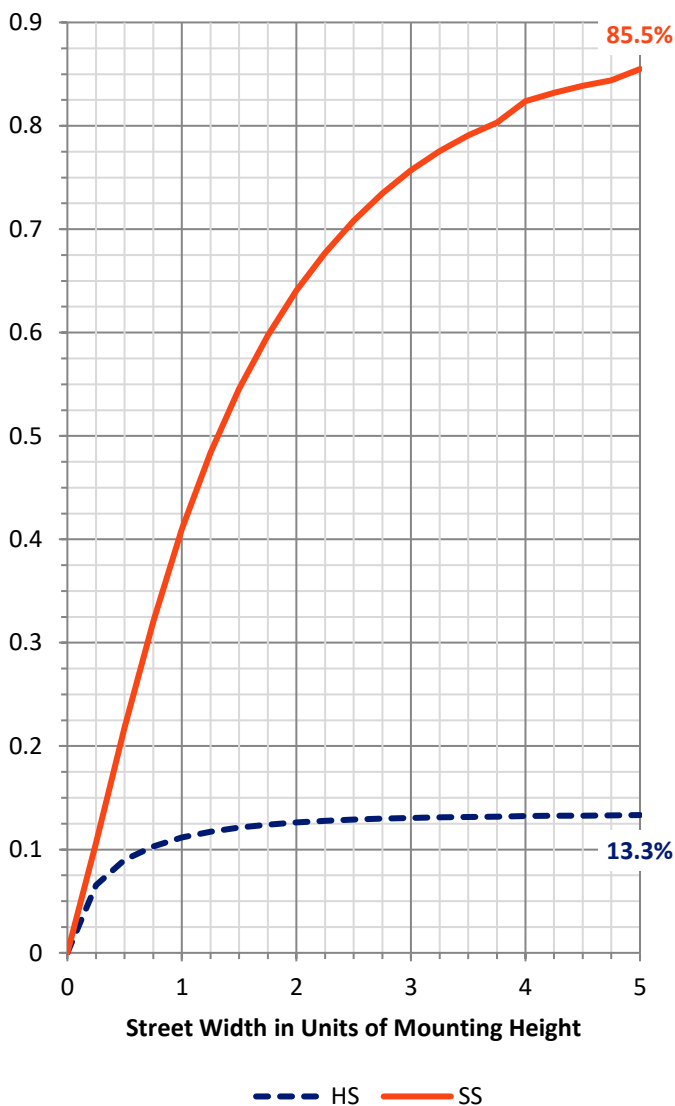
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3991.5	0.0	3991.5
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	25700.6	0.0	25700.6
	% Fixture	86.6	0.0	86.6
Total	Lumens	29692.2	0.0	29692.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	455.3	1.5
10°-20°	1167.6	3.9
20°-30°	1818.2	6.1
30°-40°	2666.9	9.0
40°-50°	3956.1	13.3
50°-60°	5605.0	18.9
60°-70°	7110.0	23.9
70°-80°	5918.6	19.9
80°-90°	994.4	3.3
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°	29692.2	100.0
0°-180°	29692.2	100.0

Coefficient of Utilization



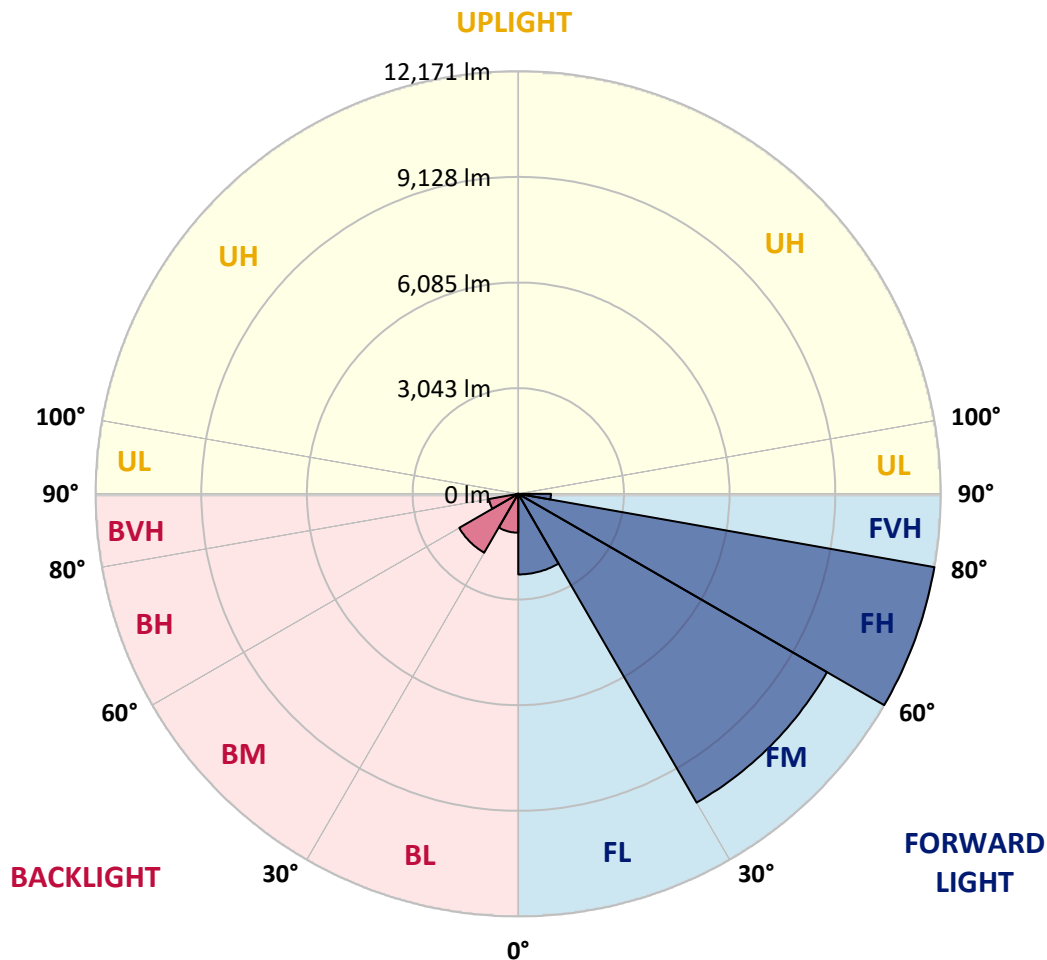
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2321.1	7.8			
FM (30°-60°)	10268.3	34.6			
FH (60°-80°)	12170.7	41.0			G5
FVH (80°-90°)	940.5	3.2			G5
BL (0°-30°)	1120.1	3.8	B3/2500		
BM (30°-60°)	1959.6	6.6	B2/2500		
BH (60°-80°)	857.9	2.9	B2/1000		G2/1000
BVH (80°-90°)	53.9	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	5216.4	5216.4	5216.4	5216.4	5216.4	5216.4	5216.4	5216.4	5216.4	5216.4	5216.4
2.5°	5426.0	5452.8	5439.4	5420.9	5409.2	5397.5	5380.7	5332.1	5293.5	5251.6	5186.2
5°	5466.3	5483.0	5471.3	5447.8	5420.9	5409.2	5377.4	5313.7	5251.6	5181.2	5083.9
7.5°	5442.8	5449.4	5436.1	5407.6	5384.1	5362.3	5325.4	5254.9	5179.5	5094.0	4966.6
10°	5358.9	5384.1	5384.1	5360.6	5337.2	5325.4	5288.5	5221.4	5152.7	5055.4	4904.6
12.5°	5290.2	5317.0	5338.8	5332.1	5330.4	5330.4	5301.9	5251.6	5171.2	5078.9	4899.5
15°	5243.2	5275.1	5322.1	5348.9	5365.7	5370.7	5358.9	5315.3	5233.2	5125.8	4919.6
17.5°	5233.2	5271.7	5357.3	5415.9	5459.5	5457.8	5454.5	5394.2	5303.6	5192.9	4944.8
20°	5278.4	5328.8	5447.8	5540.0	5603.8	5592.0	5573.6	5494.8	5389.1	5265.0	4968.2
22.5°	5414.3	5466.3	5597.0	5697.7	5759.7	5759.7	5704.3	5600.4	5488.0	5348.9	5000.1
25°	5608.8	5665.8	5804.9	5907.3	5935.8	5913.9	5858.6	5732.8	5603.8	5469.6	5067.2
27.5°	5846.9	5915.6	6044.8	6130.3	6121.9	6105.1	6048.0	5887.1	5758.0	5635.6	5181.2
30°	6143.7	6193.9	6328.1	6348.3	6318.0	6314.7	6234.2	6073.3	5952.5	5858.6	5343.8
32.5°	6423.7	6468.9	6576.3	6584.6	6531.0	6537.7	6462.3	6314.7	6245.9	6212.4	5617.2
35°	6720.5	6743.9	6836.1	6826.1	6790.9	6785.9	6755.6	6614.9	6636.6	6697.0	6004.5
37.5°	6968.6	7015.6	7067.5	7076.0	7074.2	7091.0	7111.1	7044.1	7169.9	7359.3	6512.5
40°	7196.6	7236.9	7314.0	7340.9	7406.2	7439.8	7508.6	7510.2	7800.3	8112.2	7138.0
42.5°	7351.0	7419.7	7563.9	7612.5	7771.8	7872.4	7974.7	8083.7	8504.6	8905.3	7875.7
45°	7485.1	7575.6	7815.4	7966.3	8182.6	8305.0	8521.3	8749.3	9354.7	9879.5	8625.3
47.5°	7688.0	7768.5	8043.4	8310.1	8637.0	8777.8	9101.4	9441.9	10233.3	10808.4	9342.9
50°	7969.7	8018.3	8298.3	8732.6	9150.1	9331.2	9758.8	10250.0	11172.2	11725.6	9973.4
52.5°	8330.2	8350.3	8573.3	9151.8	9701.8	9926.4	10493.1	11066.6	11993.9	12522.0	10473.0
55°	8756.1	8722.5	8896.9	9596.1	10332.2	10625.6	11234.3	11893.3	12917.8	13165.9	10836.9
57.5°	9176.9	9124.9	9264.1	10136.0	11110.2	11464.1	12173.3	12745.0	13742.7	13767.9	11091.7
60°	9622.9	9584.4	9750.4	10769.9	12064.3	12483.5	13139.1	13628.7	14540.9	14187.1	11132.0
62.5°	10080.7	10018.6	10255.1	11482.5	13139.1	13519.7	14155.2	14567.7	15323.9	14343.0	10744.7
65°	10525.0	10496.5	10862.1	12329.2	14363.1	14795.7	15412.8	15692.8	15951.0	14108.3	9783.9
67.5°	10997.9	11054.9	11638.4	13459.4	15959.4	16502.7	17168.4	16905.1	16130.4	12996.5	8239.6
70°	11718.9	11755.8	12657.9	14940.0	18016.8	18672.4	18994.3	17336.0	15265.2	10885.5	6193.9
72.5°	12029.1	12191.7	13568.4	16494.3	20354.2	20755.0	19608.0	16375.3	12716.5	7394.5	3254.6
73°	11960.3	12154.8	13610.3	16730.8	20537.0	20957.9	19477.3	15880.6	11821.2	6368.4	2790.1
75°	11103.5	11343.3	13065.3	16532.9	20181.5	19930.0	17374.6	13534.9	7988.1	2895.8	1271.0
77.5°	8761.1	8829.8	10352.4	13350.4	15892.3	15426.2	13003.3	8459.3	3263.0	1076.5	721.0
80°	4394.8	4648.0	5835.2	7647.7	10627.3	10474.7	8207.7	4000.7	1359.8	632.1	477.9
82.5°	2114.4	2293.8	2842.1	3729.1	5872.0	5732.8	4064.5	2186.5	863.6	368.9	281.7
85°	1361.6	1495.7	1809.2	1779.1	2414.5	2305.5	1826.0	1654.9	511.4	192.9	196.2
87.5°	898.7	984.2	1180.5	944.0	878.6	794.8	806.5	932.3	100.6	73.8	26.9
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°	5216.4	5216.4	5216.4	5216.4	5216.4	5216.4	5216.4	5216.4	5216.4	5216.4	5216.4
2.5°	5159.4	5137.6	5065.5	4995.1	4928.0	4864.3	4822.3	4767.1	4730.2	4740.2	4755.3
5°	5030.3	4981.7	4854.2	4730.2	4612.8	4473.6	4361.2	4270.7	4202.0	4176.8	4171.7
7.5°	4894.5	4812.3	4629.6	4416.6	4217.1	4044.4	3844.8	3745.9	3630.2	3590.0	3576.5
10°	4812.3	4701.6	4445.1	4148.3	3848.1	3561.5	3345.1	3169.1	3009.8	2979.6	2964.5
12.5°	4788.8	4643.0	4297.6	3915.2	3516.1	3164.0	2843.8	2612.4	2458.2	2422.9	2370.9
15°	4775.4	4594.3	4160.1	3680.5	3174.1	2744.9	2407.8	2137.9	1997.0	1903.2	1904.8
17.5°	4763.7	4539.0	4005.7	3424.0	2879.0	2384.4	2012.2	1769.0	1639.8	1589.6	1584.6
20°	4746.9	4473.6	3828.0	3154.0	2542.0	2055.7	1718.7	1537.6	1450.4	1408.5	1406.8
22.5°	4740.2	4409.9	3653.6	2879.0	2243.5	1802.5	1524.2	1396.7	1341.4	1312.9	1312.9
25°	4757.0	4364.6	3470.9	2617.4	1978.6	1586.2	1390.1	1302.8	1271.0	1255.9	1250.8
27.5°	4809.0	4344.5	3289.8	2355.8	1735.4	1438.7	1299.5	1239.1	1215.7	1203.9	1205.6
30°	4907.8	4342.8	3112.0	2097.7	1554.3	1326.3	1227.4	1185.5	1167.1	1160.3	1158.6
32.5°	5067.2	4379.7	2937.7	1884.7	1401.8	1232.4	1160.3	1130.1	1121.7	1116.7	1115.1
35°	5337.2	4483.7	2765.0	1690.2	1284.4	1148.6	1096.6	1081.5	1069.8	1074.8	1076.5
37.5°	5701.0	4663.1	2600.7	1537.6	1195.6	1086.6	1043.0	1029.6	1022.8	1027.8	1032.9
40°	6188.9	4921.3	2463.2	1415.2	1131.8	1034.6	996.0	984.2	977.6	986.0	987.6
42.5°	6727.1	5219.8	2349.2	1319.6	1079.8	991.0	954.1	940.7	935.6	940.7	942.3
45°	7280.5	5566.8	2290.4	1250.8	1036.2	959.1	920.6	905.5	893.7	890.3	895.4
47.5°	7825.5	5868.7	2288.8	1209.0	1001.1	930.6	888.7	871.9	856.8	848.5	846.7
50°	8269.8	6108.4	2329.0	1190.5	970.8	898.7	856.8	840.1	820.0	803.2	806.5
52.5°	8605.2	6264.4	2347.4	1182.1	954.1	865.2	823.3	808.2	784.7	763.0	763.0
55°	8821.4	6301.3	2302.2	1173.7	940.7	830.0	784.7	771.3	747.8	726.1	726.1
57.5°	8895.2	6187.3	2139.5	1153.6	927.2	799.8	746.1	734.5	716.0	694.2	690.8
60°	8724.2	5801.6	1854.5	1093.2	900.4	768.0	704.2	699.2	692.5	674.1	672.4
62.5°	8065.2	4983.3	1544.3	1014.5	855.1	734.5	665.7	674.1	679.1	669.0	667.4
65°	6968.6	4046.0	1319.6	905.5	794.8	687.5	623.7	645.6	659.0	659.0	655.6
67.5°	5652.4	3107.0	1111.7	811.6	719.3	623.7	576.8	593.6	603.6	600.2	608.6
70°	4017.5	2104.3	905.5	704.2	623.7	551.6	516.5	516.5	509.7	506.4	506.4
72.5°	1948.4	1202.2	734.5	588.6	531.5	471.1	442.6	431.0	417.5	415.9	407.5
73°	1628.2	1078.2	700.9	566.7	509.7	459.5	427.6	409.1	400.7	394.0	392.4
75°	991.0	818.2	585.2	477.9	434.3	395.7	367.2	350.5	342.1	337.0	335.4
77.5°	652.2	610.3	454.4	365.5	332.0	308.5	296.8	280.0	275.0	268.3	268.3
80°	486.2	466.1	325.3	258.2	238.1	218.0	214.6	211.3	197.9	189.5	186.1
82.5°	313.6	332.0	221.4	172.7	150.9	134.1	135.9	140.9	127.5	115.7	112.4
85°	223.0	239.8	134.1	78.8	63.7	55.4	62.0	55.4	57.0	45.3	36.9
87.5°	36.9	63.7	23.5	10.0	5.0	3.4	0.0	0.0	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)