

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: P647551

Luminaire Tested: **GALN-SA7D-835-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647551
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7D-835-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41816.9 lumens
Efficiency: N/A
Efficacy: 96.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

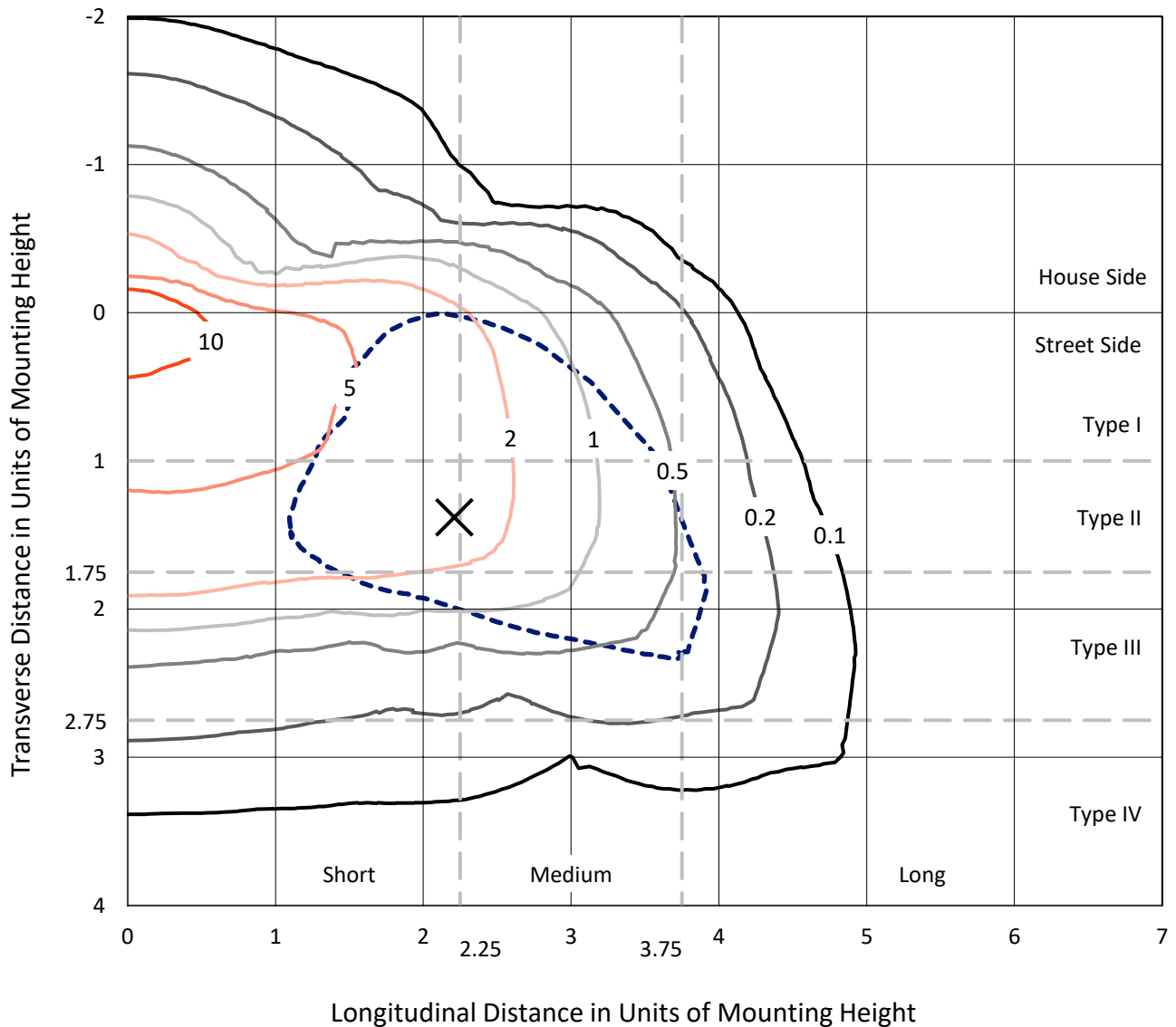
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

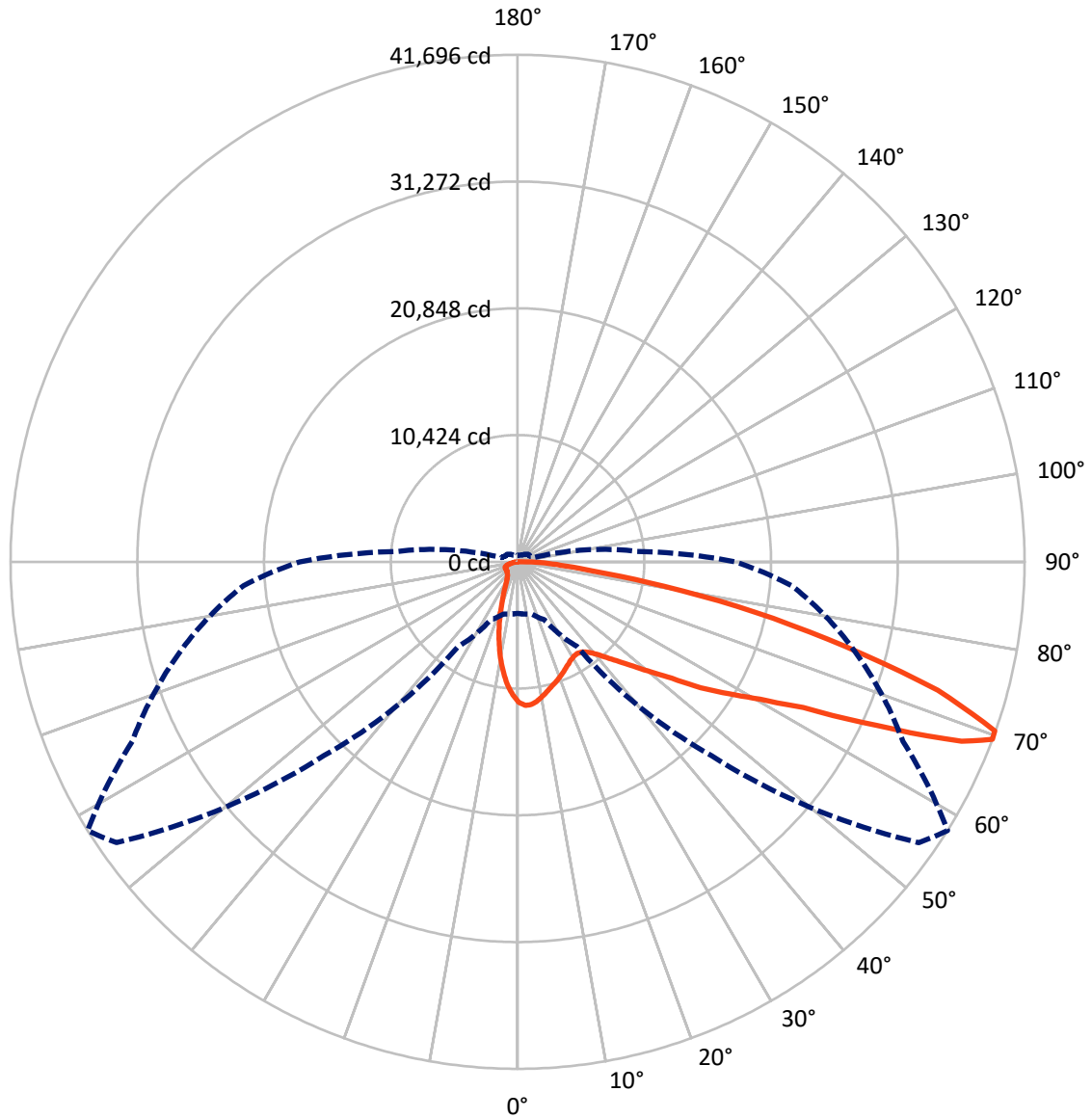
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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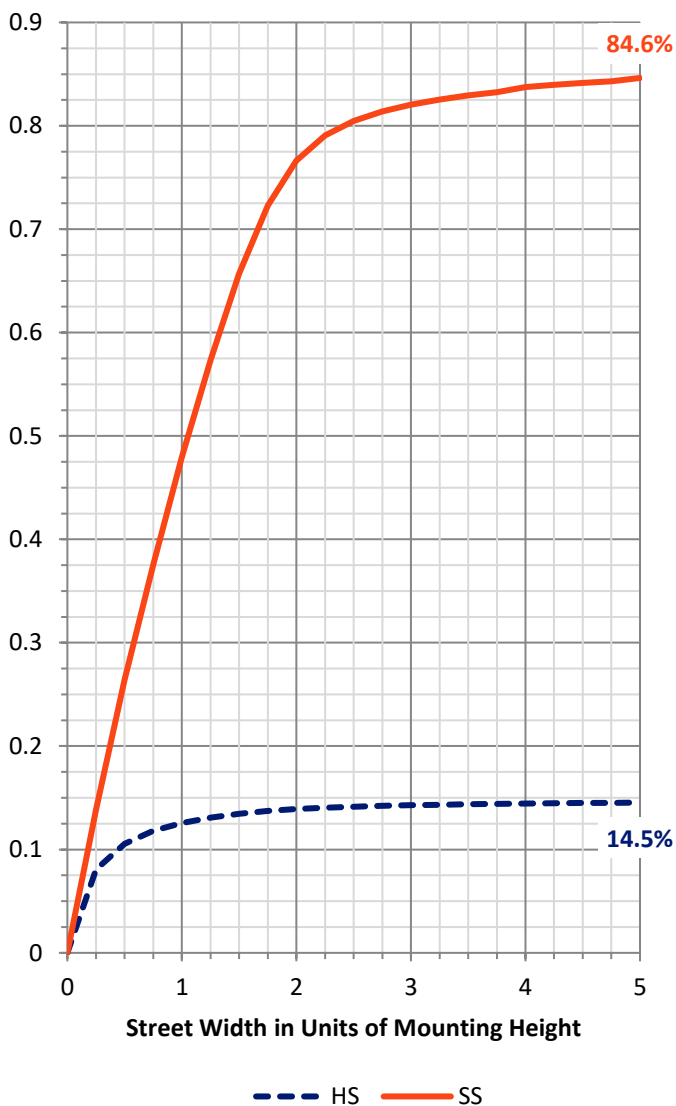
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6128.3	0.0	6128.3
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	35688.6	0.0	35688.6
	% Fixture	85.3	0.0	85.3
Total	Lumens	41816.9	0.0	41816.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	981.4	2.3
10°-20°	2154.9	5.2
20°-30°	2784.2	6.7
30°-40°	3616.1	8.6
40°-50°	5257.3	12.6
50°-60°	8388.9	20.1
60°-70°	11206.5	26.8
70°-80°	6460.1	15.4
80°-90°	967.6	2.3
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°	41816.9	100.0
0°-180°	41816.9	100.0

Coefficient of Utilization



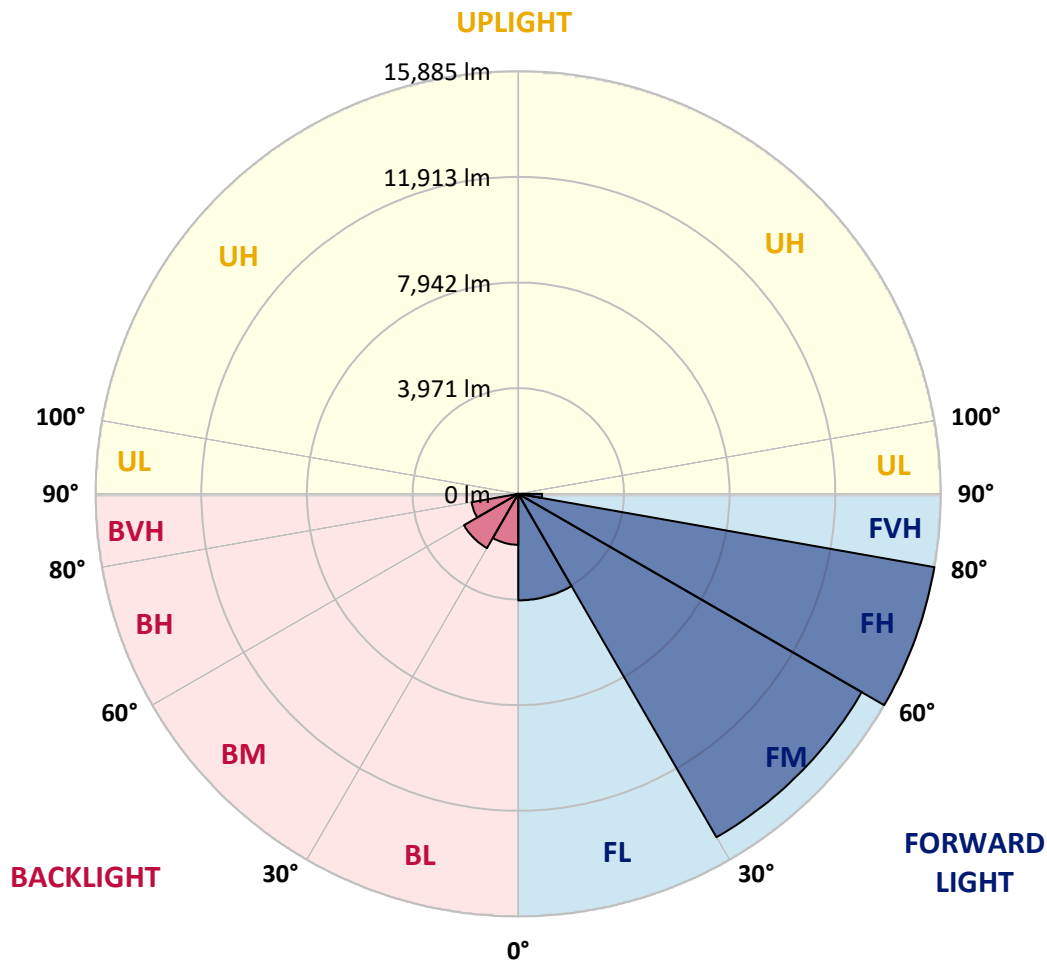
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4005.0	9.6			
FM (30°-60°)	14905.5	35.6			
FH (60°-80°)	15884.6	38.0			G5
FVH (80°-90°)	893.5	2.1			G5
BL (0°-30°)	1915.4	4.6	B3/2500		
BM (30°-60°)	2356.7	5.6	B2/2500		
BH (60°-80°)	1782.0	4.3	B3/2500		G3/2500
BVH (80°-90°)	74.1	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	11555.7	11555.7	11555.7	11555.7	11555.7	11555.7	11555.7	11555.7	11555.7	11555.7	11555.7
2.5°	11984.8	12017.5	12008.2	11996.5	11977.9	11926.6	11842.6	11828.6	11775.0	11660.7	11518.4
5°	11800.6	11828.6	11831.0	11847.3	11870.6	11861.3	11800.6	11793.6	11714.3	11560.4	11322.5
7.5°	11168.6	11205.9	11287.6	11378.5	11460.1	11537.1	11555.7	11567.4	11518.4	11341.2	11024.0
10°	10457.3	10494.6	10531.9	10667.2	10867.7	11059.0	11217.6	11238.6	11250.2	11087.0	10699.9
12.5°	9669.0	9746.0	9825.3	10025.8	10294.0	10594.9	10874.8	10919.1	10998.3	10874.8	10420.0
15°	8999.7	9079.0	9193.3	9372.8	9697.1	10130.8	10524.9	10597.2	10753.5	10690.5	10158.8
17.5°	8535.6	8563.6	8642.9	8848.1	9198.0	9655.0	10182.1	10326.7	10576.2	10559.9	9934.9
20°	8169.5	8204.4	8253.4	8379.4	8743.2	9225.9	9862.6	10049.2	10387.4	10443.3	9713.3
22.5°	8015.6	8041.2	8034.2	8101.9	8349.1	8834.1	9538.4	9760.0	10219.4	10364.0	9508.1
25°	8024.9	8048.2	8013.2	7996.9	8143.8	8489.0	9200.2	9482.4	10084.2	10310.4	9321.5
27.5°	8181.2	8197.5	8132.2	8066.9	8078.5	8274.4	8920.4	9232.9	9969.9	10333.7	9165.3
30°	8391.0	8421.3	8379.4	8300.1	8213.8	8223.1	8740.9	9048.7	9916.2	10415.3	9090.7
32.5°	8661.5	8689.6	8670.9	8607.9	8495.9	8372.4	8696.5	8981.1	9920.9	10580.9	9074.3
35°	8946.1	9002.1	9032.4	9027.7	8936.8	8722.2	8871.5	9107.0	10032.9	10858.4	9169.9
37.5°	9267.9	9314.6	9445.2	9529.1	9445.2	9195.6	9265.6	9428.8	10280.1	11259.5	9379.9
40°	9580.4	9650.4	9841.6	10102.8	10070.2	9850.9	9867.3	9974.6	10716.1	11856.6	9790.3
42.5°	9906.9	9990.8	10324.4	10711.5	10788.5	10618.2	10662.5	10758.2	11336.5	12684.5	10494.6
45°	10326.7	10427.0	10837.4	11320.2	11623.4	11518.4	11644.4	11691.0	12166.7	13761.9	11422.8
47.5°	10867.7	10984.4	11490.4	12092.1	12521.3	12616.9	12836.1	12808.1	13195.3	15037.6	12626.2
50°	11779.6	11844.9	12323.0	12936.3	13526.4	13957.8	14195.7	14240.0	14470.9	16278.3	13971.9
52.5°	12864.1	12922.4	13267.5	13803.9	14543.2	15457.4	16045.1	15900.5	15956.5	17789.5	15546.0
55°	14083.7	14181.7	14400.9	14757.7	15716.3	17061.9	18241.9	18276.9	17656.6	19235.5	17054.9
57.5°	15028.3	15193.9	15569.3	16077.7	17292.8	18846.0	20431.8	20455.2	19662.2	20779.3	18720.0
60°	14552.5	14748.4	15606.7	16845.0	19361.4	21959.4	23048.5	22915.6	21614.2	22537.8	20751.4
62.5°	12500.3	12535.2	13782.9	15718.6	19998.1	26124.6	26943.2	26381.1	24219.3	24767.3	22815.3
65°	8090.2	8318.7	9307.6	12019.8	17906.2	28435.7	33767.0	32468.0	27871.4	27297.7	24543.4
67.5°	5107.4	5049.1	5459.5	6863.5	12316.0	26399.8	39590.4	39385.1	32647.6	28895.2	24130.7
69°	4235.2	4300.5	4440.4	5261.3	8475.0	22540.1	40278.4	41696.3	34963.4	28769.2	22631.0
70°	3841.0	3871.4	4018.3	4664.3	6539.3	18878.7	39149.6	41633.3	35872.9	28242.2	21544.3
72.5°	3048.1	3045.8	3297.6	3880.7	4888.2	10776.8	32146.2	36145.8	34856.1	25788.8	17801.2
75°	2315.8	2353.1	2630.6	3283.7	4503.3	5888.6	22432.9	27836.4	27838.7	20368.9	11108.0
77.5°	1669.8	1693.2	2017.3	2756.6	4242.1	4773.9	14942.0	19965.4	18769.1	9333.2	3491.2
80°	1093.8	1107.8	1355.0	2182.8	3824.7	4503.3	8859.8	12220.4	8852.8	2476.7	1154.4
82.5°	599.4	669.3	827.9	1413.2	3069.1	4160.5	5384.9	6184.8	3320.9	1103.1	601.7
85°	300.8	319.5	466.4	825.6	2005.7	3442.2	3750.1	3547.1	1714.1	548.0	312.5
87.5°	88.6	112.0	193.6	319.5	813.9	1793.4	2087.2	1872.7	660.0	198.3	65.3
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°	11555.7	11555.7	11555.7	11555.7	11555.7	11555.7	11555.7	11555.7	11555.7	11555.7	11555.7
2.5°	11460.1	11418.2	11231.6	11063.6	10909.8	10746.5	10608.9	10487.7	10499.2	10501.6	10378.0
5°	11198.9	11103.3	10748.8	10417.7	10137.8	9783.4	9480.2	9284.3	9186.3	9055.7	9102.3
7.5°	10844.5	10660.2	10168.1	9617.7	9102.3	8642.9	8143.8	7801.0	7581.8	7369.5	7397.5
10°	10478.3	10182.1	9466.2	8738.5	8071.6	7336.9	6700.2	6154.5	5748.7	5597.1	5496.8
12.5°	10102.8	9713.3	8803.8	7836.0	6914.8	6035.6	5133.0	4547.7	4099.9	3862.0	3892.4
15°	9760.0	9286.5	8113.5	6933.5	5737.0	4689.9	3789.7	3232.4	2919.8	2854.5	2891.9
17.5°	9442.8	8822.5	7467.5	6056.6	4659.6	3516.8	2847.5	2532.7	2406.8	2371.8	2369.4
20°	9116.3	8428.4	6742.2	5119.0	3631.2	2726.2	2336.8	2189.9	2166.6	2180.6	2182.8
22.5°	8785.2	7941.0	5995.9	4188.5	2891.9	2229.5	2042.9	2003.3	2021.9	2054.6	2059.3
25°	8479.7	7511.8	5277.7	3372.3	2308.8	1959.0	1868.1	1868.1	1910.1	1959.0	1961.3
27.5°	8227.8	7096.7	4561.7	2677.3	1933.3	1763.1	1732.8	1749.1	1807.4	1844.7	1847.0
30°	8020.2	6709.5	3885.3	2145.6	1700.1	1606.9	1599.8	1627.9	1669.8	1704.8	1707.1
32.5°	7864.0	6369.1	3253.4	1802.8	1539.2	1487.9	1485.6	1506.6	1529.9	1539.2	1548.5
35°	7803.3	6086.9	2675.0	1585.9	1432.0	1399.3	1399.3	1397.0	1406.3	1411.0	1415.6
37.5°	7852.3	5870.0	2227.2	1445.9	1352.6	1329.3	1315.4	1301.3	1296.6	1296.6	1299.0
40°	8059.9	5755.8	1893.7	1355.0	1296.6	1261.6	1236.0	1219.7	1203.4	1208.0	1212.7
42.5°	8500.6	5776.7	1667.5	1294.3	1247.7	1198.7	1161.4	1142.7	1131.1	1145.1	1142.7
45°	9202.6	5986.6	1522.9	1252.3	1198.7	1135.7	1100.7	1082.1	1082.1	1103.1	1110.1
47.5°	10184.5	6387.7	1445.9	1219.7	1161.4	1086.8	1051.8	1037.8	1042.5	1077.5	1079.8
50°	11383.2	7085.1	1432.0	1203.4	1142.7	1051.8	1012.2	998.2	1009.8	1047.1	1051.8
52.5°	12705.5	7982.9	1499.6	1205.7	1126.4	1030.8	979.5	958.5	970.1	1000.5	1009.8
55°	14272.7	9107.0	1674.4	1215.1	1103.1	1019.2	956.2	909.5	923.5	944.5	946.9
57.5°	15872.5	10524.9	1982.3	1217.4	1084.5	998.2	916.5	855.9	855.9	869.9	876.9
60°	17826.9	12068.8	2388.1	1219.7	1086.8	967.9	862.9	795.3	785.9	792.9	795.3
62.5°	19767.2	13360.8	2455.7	1212.7	1110.1	937.5	804.6	734.6	718.3	716.0	711.3
65°	20623.1	13120.6	2012.6	1180.1	1135.7	918.9	757.9	676.4	648.3	639.0	639.0
67.5°	19228.4	11098.6	1513.5	1135.7	1119.5	900.2	713.6	627.3	594.7	576.1	576.1
69°	17917.8	9871.9	1359.6	1105.4	1077.5	869.9	685.7	601.7	562.0	541.1	534.1
70°	16905.7	9027.7	1294.3	1079.8	1037.8	834.9	664.7	583.0	538.7	515.4	510.8
72.5°	13491.4	7082.7	1133.4	981.8	883.9	702.0	590.1	524.8	482.7	457.1	450.1
75°	7775.3	3838.7	939.8	853.5	711.3	545.8	499.1	457.1	424.5	401.1	394.2
77.5°	2392.8	1483.2	681.0	674.0	522.4	422.1	398.8	382.5	359.2	333.5	328.9
80°	1007.5	755.6	461.7	454.8	347.5	293.9	286.9	284.5	275.2	254.2	247.2
82.5°	552.7	426.8	321.8	279.8	209.9	170.2	177.3	179.5	172.6	151.6	137.6
85°	270.5	233.2	156.3	125.9	95.6	60.6	58.3	70.0	65.3	46.7	51.3
87.5°	53.6	65.3	42.0	18.6	9.3	0.0	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)