

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: P648651

Luminaire Tested: **GALN-SA9B-835-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648651
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-SA9B-835-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3500K, 800mA 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: 40034 lumens
Efficiency: N/A
Efficacy: 110.0 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

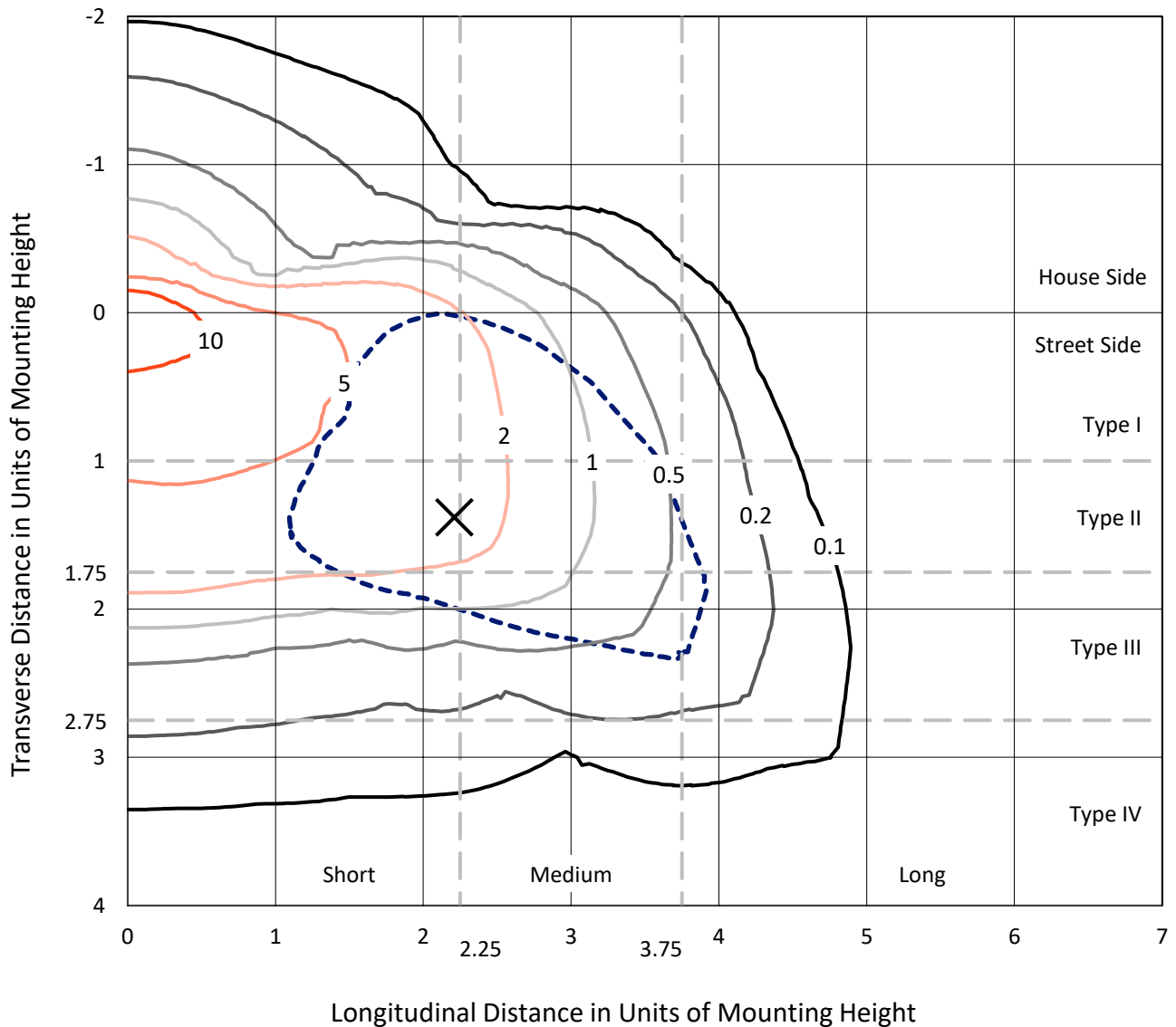
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

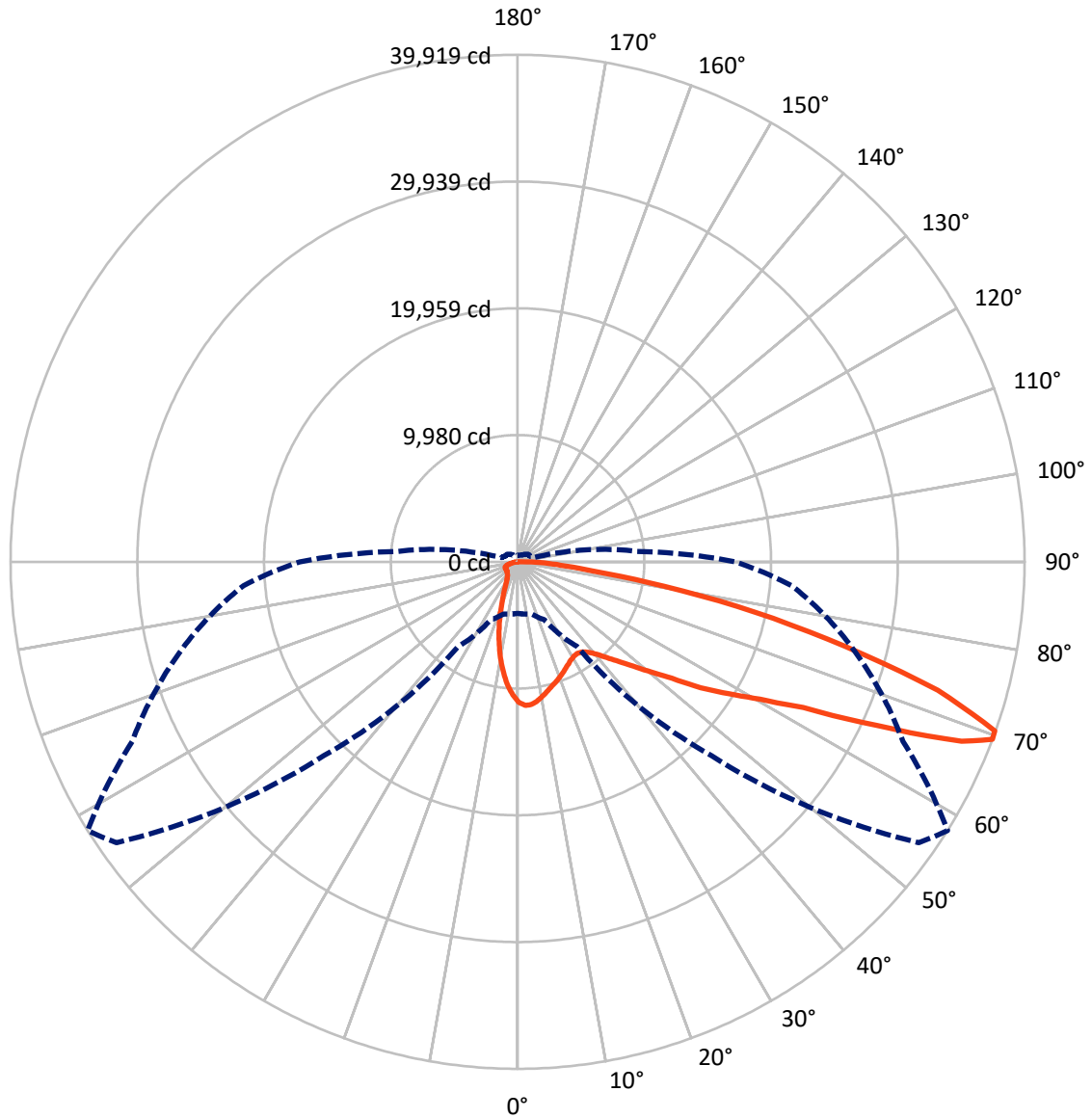
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.7 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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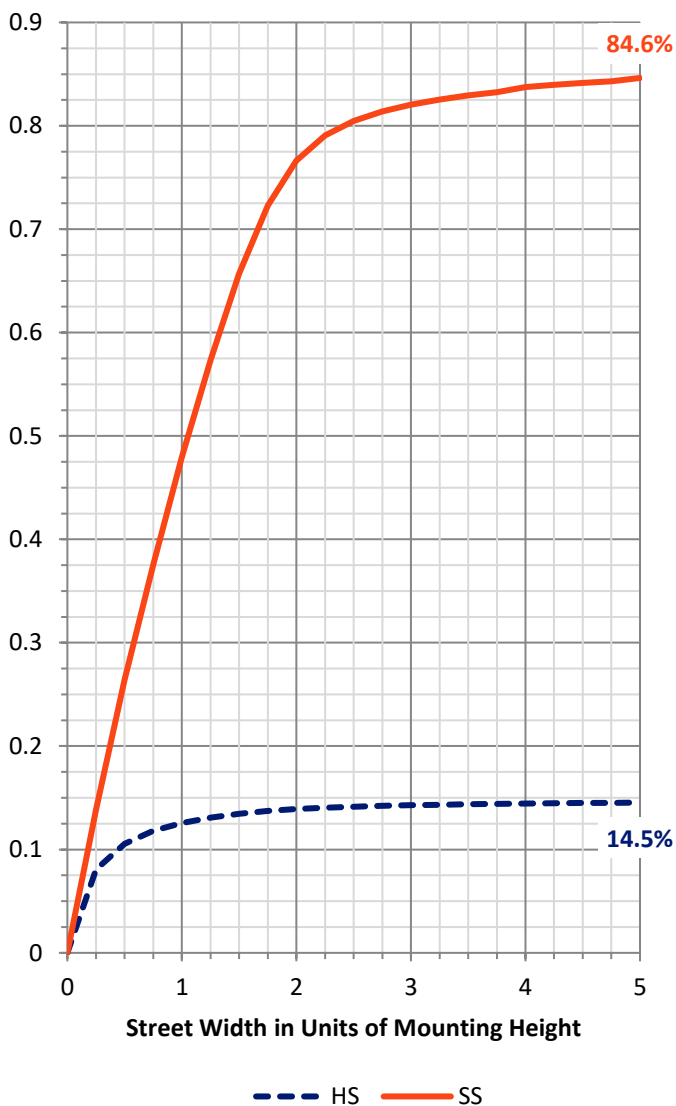
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5867.0	0.0	5867.0
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	34167.0	0.0	34167.0
	% Fixture	85.3	0.0	85.3
Total	Lumens	40034.0	0.0	40034.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	939.5	2.3
10°-20°	2063.0	5.2
20°-30°	2665.5	6.7
30°-40°	3461.9	8.6
40°-50°	5033.1	12.6
50°-60°	8031.2	20.1
60°-70°	10728.7	26.8
70°-80°	6184.7	15.4
80°-90°	926.3	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°	40034.0	100.0
0°-180°	40034.0	100.0

Coefficient of Utilization



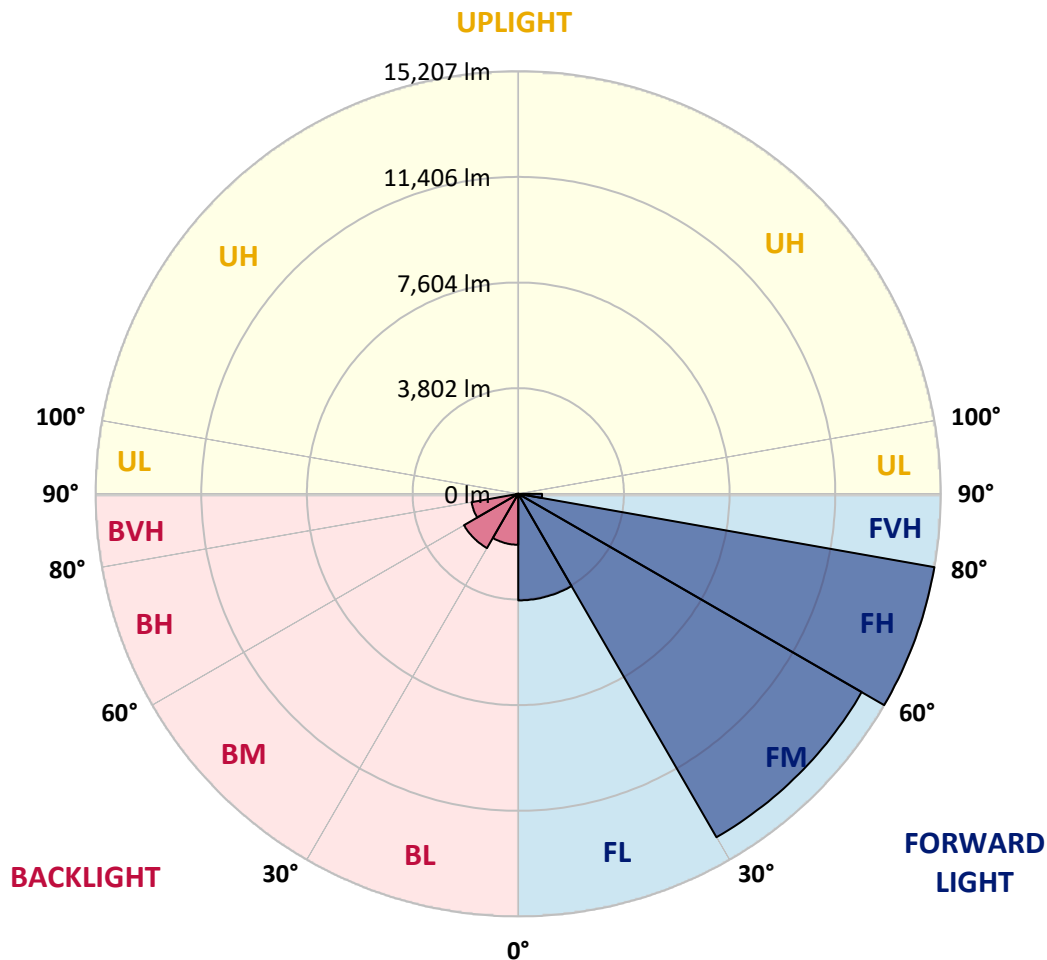
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3834.2	9.6			
FM (30°-60°)	14270.0	35.6			
FH (60°-80°)	15207.4	38.0			G5
FVH (80°-90°)	855.4	2.1			G5
BL (0°-30°)	1833.8	4.6	B3/2500		
BM (30°-60°)	2256.2	5.6	B2/2500		
BH (60°-80°)	1706.0	4.3	B3/2500		G3/2500
BVH (80°-90°)	71.0	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	11063.1	11063.1	11063.1	11063.1	11063.1	11063.1	11063.1	11063.1	11063.1	11063.1	11063.1
2.5°	11473.8	11505.2	11496.2	11485.0	11467.2	11418.0	11337.7	11324.3	11272.9	11163.5	11027.3
5°	11297.5	11324.3	11326.5	11342.1	11364.5	11355.5	11297.5	11290.8	11214.9	11067.5	10839.8
7.5°	10692.4	10728.1	10806.3	10893.4	10971.6	11045.2	11063.1	11074.2	11027.3	10857.6	10554.0
10°	10011.4	10047.1	10082.9	10212.4	10404.4	10587.5	10739.3	10759.4	10770.6	10614.3	10243.7
12.5°	9256.8	9330.5	9406.4	9598.4	9855.2	10143.2	10411.1	10453.5	10529.5	10411.1	9975.7
15°	8616.0	8691.9	8801.3	8973.3	9283.6	9698.9	10076.2	10145.4	10295.0	10234.7	9725.6
17.5°	8171.7	8198.5	8274.4	8470.9	8805.8	9243.4	9748.0	9886.4	10125.3	10109.7	9511.3
20°	7821.2	7854.7	7901.6	8022.1	8370.4	8832.6	9442.1	9620.7	9944.5	9998.0	9299.2
22.5°	7673.8	7698.4	7691.6	7756.4	7993.1	8457.5	9131.7	9343.9	9783.7	9922.2	9102.8
25°	7682.7	7705.0	7671.6	7655.9	7796.6	8127.1	8808.0	9078.2	9654.2	9870.8	8924.1
27.5°	7832.3	7847.9	7785.4	7723.0	7734.1	7921.6	8540.1	8839.3	9544.8	9893.1	8774.5
30°	8033.3	8062.3	8022.1	7946.2	7863.6	7872.5	8368.2	8662.9	9493.5	9971.3	8703.1
32.5°	8292.3	8319.1	8301.2	8240.9	8133.7	8015.4	8325.8	8598.1	9497.9	10129.7	8687.5
35°	8564.7	8618.2	8647.3	8642.8	8555.8	8350.3	8493.2	8718.7	9605.1	10395.5	8779.0
37.5°	8872.8	8917.4	9042.5	9122.8	9042.5	8803.6	8870.5	9026.8	9841.8	10779.5	8979.9
40°	9172.0	9238.9	9422.0	9672.1	9640.8	9430.9	9446.6	9549.3	10259.3	11351.1	9372.9
42.5°	9484.6	9564.9	9884.2	10254.8	10328.5	10165.5	10207.9	10299.5	10853.2	12143.7	10047.1
45°	9886.4	9982.4	10375.4	10837.6	11127.8	11027.3	11147.9	11192.5	11648.0	13175.2	10935.8
47.5°	10404.4	10516.1	11000.5	11576.6	11987.4	12078.9	12288.8	12262.0	12632.6	14396.5	12087.9
50°	11277.4	11339.9	11797.6	12384.8	12949.7	13362.8	13590.5	13632.9	13853.9	15584.3	13376.1
52.5°	12315.6	12371.4	12701.8	13215.4	13923.1	14798.4	15361.1	15222.6	15276.2	17031.1	14883.2
55°	13483.3	13577.1	13787.0	14128.5	15046.2	16334.5	17464.2	17497.7	16903.8	18415.4	16327.7
57.5°	14387.5	14546.1	14905.6	15392.3	16555.5	18042.5	19560.7	19583.1	18823.9	19893.4	17921.9
60°	13932.1	14119.6	14941.3	16126.8	18536.0	21023.2	22065.8	21938.6	20692.7	21576.9	19866.6
62.5°	11967.3	12000.8	13195.3	15048.4	19145.4	25010.7	25794.4	25256.4	23186.7	23711.4	21842.6
65°	7745.3	7964.0	8910.7	11507.4	17142.7	27223.3	32327.3	31083.7	26683.1	26133.8	23497.0
67.5°	4889.6	4833.8	5226.8	6570.9	11790.9	25274.2	37902.4	37705.9	31255.6	27663.2	23101.8
69°	4054.6	4117.1	4251.1	5037.0	8113.7	21579.1	38561.0	39918.5	33472.7	27542.7	21666.2
70°	3677.3	3706.3	3847.0	4465.4	6260.5	18073.8	37480.4	39858.2	34343.5	27038.1	20625.7
72.5°	2918.2	2915.9	3157.1	3715.3	4679.8	10317.4	30775.6	34604.7	33370.1	24689.2	17042.2
75°	2217.1	2252.8	2518.5	3143.7	4311.4	5637.6	21476.4	26649.6	26651.8	19500.5	10634.4
77.5°	1598.7	1621.0	1931.3	2639.0	4061.3	4570.4	14304.9	19114.2	17968.8	8935.3	3342.4
80°	1047.1	1060.6	1297.2	2089.8	3661.6	4311.4	8482.1	11699.4	8475.3	2371.2	1105.2
82.5°	573.8	640.8	792.6	1353.0	2938.2	3983.1	5155.4	5921.1	3179.4	1056.0	576.1
85°	288.0	305.9	446.5	790.4	1920.2	3295.5	3590.2	3395.9	1641.0	524.7	299.2
87.5°	84.9	107.2	185.3	305.9	779.2	1717.0	1998.3	1792.8	631.9	189.8	62.5
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°	11063.1	11063.1	11063.1	11063.1	11063.1	11063.1	11063.1	11063.1	11063.1	11063.1	11063.1
2.5°	10971.6	10931.3	10752.7	10592.0	10444.6	10288.3	10156.6	10040.5	10051.6	10053.9	9935.6
5°	10721.5	10629.9	10290.6	9973.5	9705.6	9366.2	9075.9	8888.4	8794.7	8669.6	8714.2
7.5°	10382.1	10205.7	9734.6	9207.7	8714.2	8274.4	7796.6	7468.4	7258.5	7055.4	7082.2
10°	10031.6	9748.0	9062.5	8366.0	7727.4	7024.1	6414.6	5892.1	5503.6	5358.5	5262.5
12.5°	9672.1	9299.2	8428.4	7501.9	6620.0	5778.2	4914.2	4353.8	3925.1	3697.3	3726.4
15°	9343.9	8890.7	7767.6	6637.8	5492.4	4490.0	3628.1	3094.5	2795.3	2732.8	2768.5
17.5°	9040.2	8446.3	7149.1	5798.3	4460.9	3366.9	2726.2	2424.7	2304.1	2270.7	2268.4
20°	8727.6	8069.0	6454.7	4900.8	3476.3	2610.1	2237.2	2096.5	2074.2	2087.6	2089.8
22.5°	8410.6	7602.4	5740.3	4010.0	2768.5	2134.5	1955.9	1917.9	1935.7	1967.1	1971.5
25°	8118.1	7191.5	5052.6	3228.5	2210.4	1875.4	1788.4	1788.4	1828.6	1875.4	1877.7
27.5°	7877.0	6794.1	4367.2	2563.2	1850.9	1687.9	1658.9	1674.5	1730.4	1766.1	1768.3
30°	7678.3	6423.5	3719.7	2054.1	1627.6	1538.4	1531.6	1558.4	1598.7	1632.1	1634.4
32.5°	7528.7	6097.5	3114.6	1725.9	1473.6	1424.4	1422.2	1442.4	1464.7	1473.6	1482.5
35°	7470.6	5827.4	2560.9	1518.2	1370.9	1339.6	1339.6	1337.4	1346.3	1350.8	1355.2
37.5°	7517.5	5619.7	2132.3	1384.3	1295.0	1272.6	1259.2	1245.8	1241.4	1241.4	1243.6
40°	7716.2	5510.3	1813.0	1297.2	1241.4	1207.9	1183.3	1167.7	1152.1	1156.6	1161.0
42.5°	8138.2	5530.4	1596.4	1239.2	1194.5	1147.6	1111.9	1094.0	1082.9	1096.3	1094.0
45°	8810.2	5731.3	1457.9	1198.9	1147.6	1087.4	1053.8	1036.0	1036.0	1056.0	1062.8
47.5°	9750.2	6115.4	1384.3	1167.7	1111.9	1040.5	1006.9	993.5	998.0	1031.5	1033.7
50°	10897.9	6783.0	1370.9	1152.1	1094.0	1006.9	969.0	955.6	966.8	1002.5	1006.9
52.5°	12163.7	7642.5	1435.6	1154.3	1078.4	986.9	937.7	917.7	928.8	957.8	966.8
55°	13664.1	8718.7	1603.1	1163.2	1056.0	975.7	915.4	870.8	884.2	904.2	906.5
57.5°	15195.8	10076.2	1897.8	1165.5	1038.2	955.6	877.4	819.4	819.4	832.8	839.5
60°	17066.8	11554.3	2286.3	1167.7	1040.5	926.6	826.1	761.4	752.4	759.1	761.4
62.5°	18924.4	12791.2	2351.0	1161.0	1062.8	897.6	770.3	703.3	687.7	685.4	681.0
65°	19743.8	12561.2	1926.8	1129.7	1087.4	879.7	725.6	647.5	620.7	611.8	611.8
67.5°	18408.6	10625.5	1449.0	1087.4	1071.7	861.8	683.2	600.6	569.3	551.5	551.5
69°	17153.9	9451.0	1301.7	1058.3	1031.5	832.8	656.4	576.1	538.1	518.0	511.3
70°	16184.8	8642.8	1239.2	1033.7	993.5	799.3	636.3	558.2	515.8	493.4	489.0
72.5°	12916.2	6780.7	1085.1	940.0	846.2	672.0	564.9	502.4	462.2	437.6	430.9
75°	7443.8	3675.0	899.7	817.1	681.0	522.4	477.8	437.6	406.4	384.1	377.3
77.5°	2290.7	1420.0	651.9	645.3	500.1	404.1	381.8	366.1	343.8	319.3	314.8
80°	964.5	723.4	442.1	435.3	332.7	281.3	274.6	272.4	263.5	243.4	236.7
82.5°	529.2	408.6	308.1	267.9	200.9	163.0	169.7	171.9	165.2	145.1	131.7
85°	259.0	223.2	149.6	120.6	91.5	58.0	55.8	66.9	62.5	44.6	49.1
87.5°	51.4	62.5	40.2	17.9	8.9	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)