

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: P531118

Luminaire Tested: **GALN-SA6B-827-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531118
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6B-827-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21024 lumens
Efficiency: N/A
Efficacy: 86.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

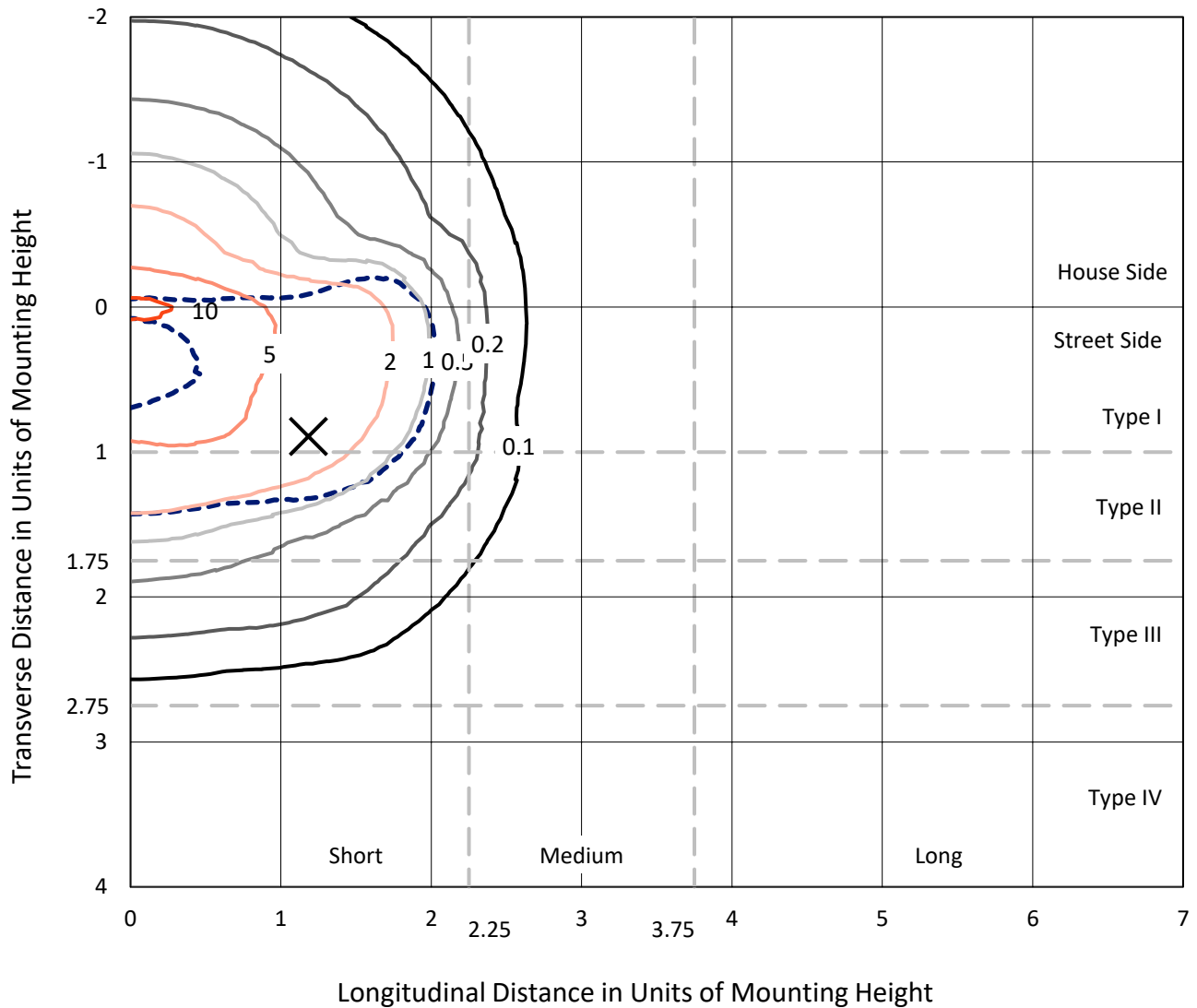
Input Watts (W): 243
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

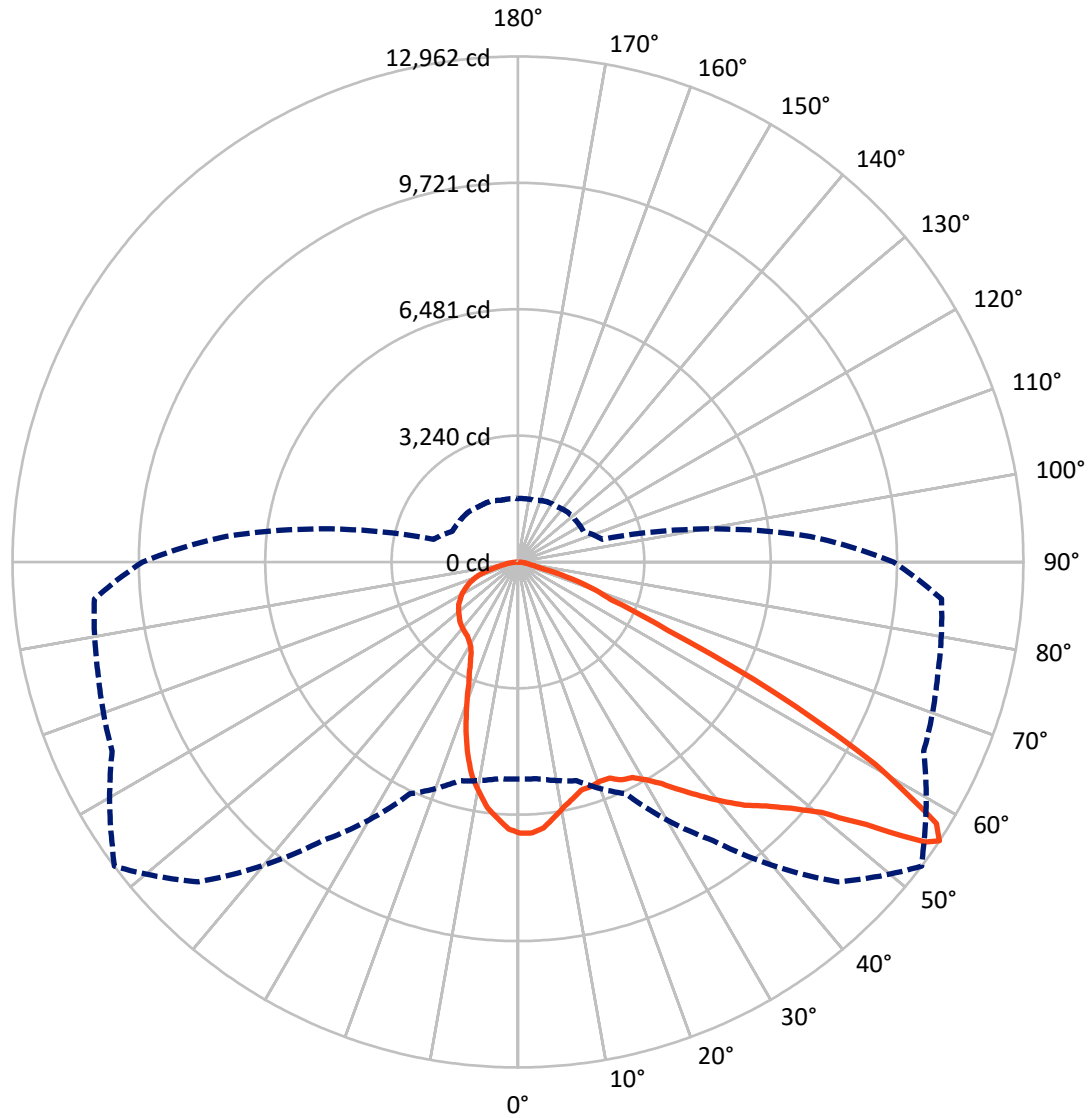
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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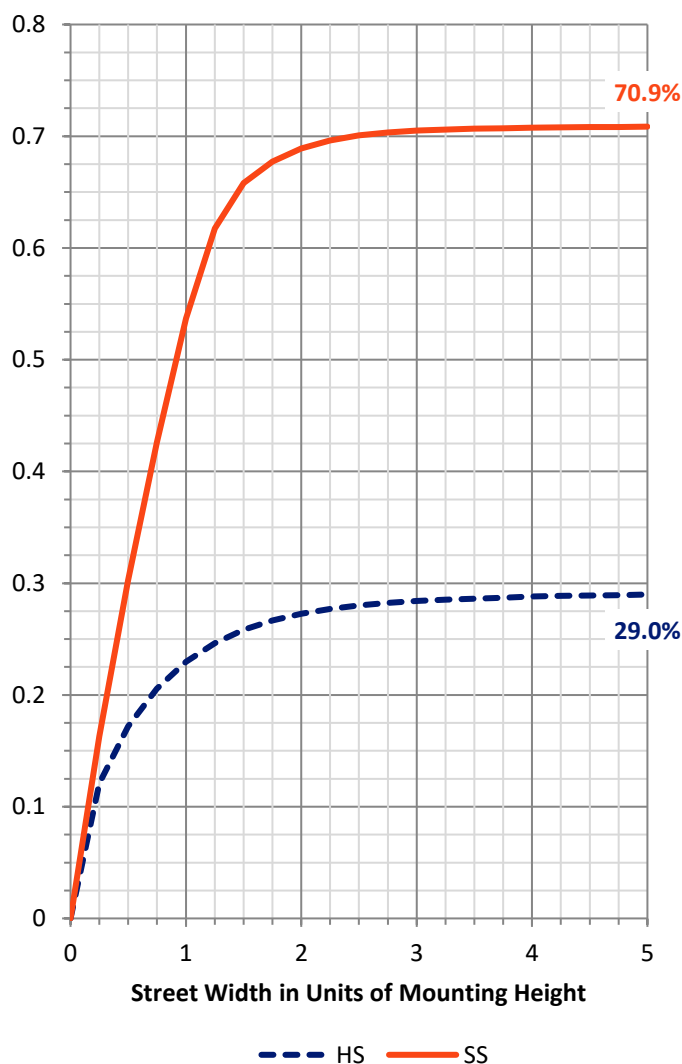
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6135.3	0.0	6135.3
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	14888.7	0.0	14888.7
	% Fixture	70.8	0.0	70.8
Total	Lumens	21024.0	0.0	21024.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	615.8	2.9
10°-20°	1537.9	7.3
20°-30°	2267.8	10.8
30°-40°	3240.2	15.4
40°-50°	4459.7	21.2
50°-60°	5270.2	25.1
60°-70°	2808.7	13.4
70°-80°	712.5	3.4
80°-90°	111.1	0.5
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°	21024.0	100.0
0°-180°	21024.0	100.0

Coefficient of Utilization

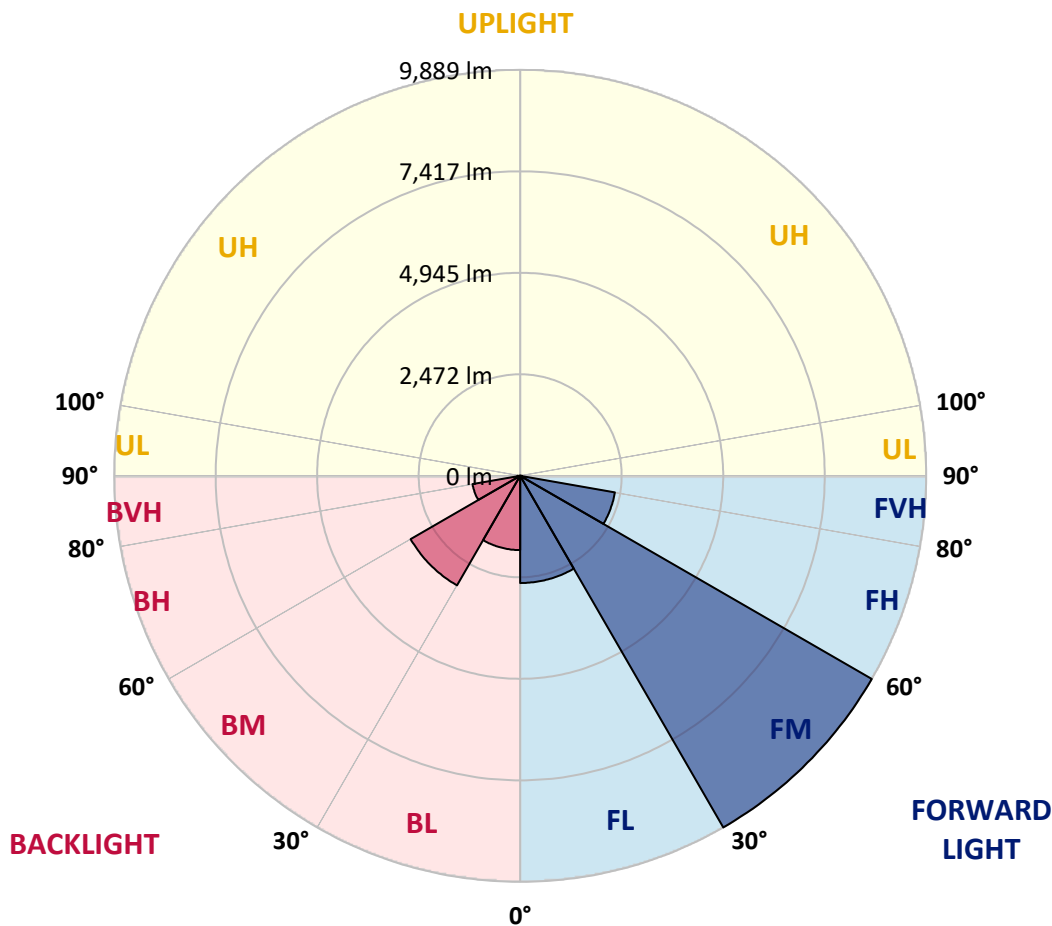


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2611.9	12.4			
FM (30°-60°)	9889.3	47.0			
FH (60°-80°)	2342.9	11.1			G2/5000
FVH (80°-90°)	44.7	0.2			G1/100
BL (0°-30°)	1809.5	8.6	B3/2500		
BM (30°-60°)	3080.9	14.7	B3/5000		
BH (60°-80°)	1178.4	5.6	B3/2500		G3/2500
BVH (80°-90°)	66.5	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	6955.6	6955.6	6955.6	6955.6	6955.6	6955.6	6955.6	6955.6	6955.6	6955.6	6955.6
2.5°	6869.3	6809.9	6845.0	6831.5	6942.1	6974.4	6958.3	6971.7	7033.8	7004.1	6942.1
5°	6418.9	6502.5	6518.7	6559.1	6623.8	6750.6	6850.4	6877.4	6907.0	7044.6	7031.1
7.5°	6008.9	6065.6	6035.9	6154.6	6294.8	6499.8	6621.1	6642.7	6915.1	6990.6	7047.3
10°	5750.0	5693.4	5828.2	5860.6	6019.7	6254.3	6400.0	6489.0	6737.1	7036.5	7071.5
12.5°	5510.0	5491.1	5572.0	5663.7	5841.7	6084.4	6232.8	6267.8	6650.8	6966.4	7130.9
15°	5332.0	5310.4	5391.3	5458.7	5666.4	5882.2	6071.0	6170.7	6556.4	6925.9	7079.6
17.5°	5191.7	5189.0	5234.9	5356.2	5569.3	5750.0	6054.8	6060.2	6507.9	6987.9	7122.8
20°	5183.6	5180.9	5189.0	5323.9	5518.1	5739.2	6003.5	6052.1	6507.9	6944.8	7125.5
22.5°	5251.1	5207.9	5256.5	5342.8	5483.0	5758.1	6022.4	6130.3	6664.3	7157.8	7246.8
25°	5358.9	5369.7	5396.7	5426.4	5507.3	5801.3	6189.6	6278.6	6847.7	7341.2	7414.1
27.5°	5555.8	5550.4	5561.2	5577.4	5647.5	5841.7	6257.0	6486.3	7230.7	7667.6	7594.8
30°	5844.4	5825.5	5868.7	5925.3	5860.6	5971.2	6480.9	6653.5	7586.7	7996.6	7797.0
32.5°	6106.0	6176.1	6257.0	6281.3	6203.1	6224.7	6777.6	6952.9	7883.3	8401.2	8045.2
35°	6432.3	6489.0	6596.9	6672.4	6658.9	6594.2	7182.1	7414.1	8312.2	8697.8	8306.8
37.5°	6750.6	6818.0	6996.0	7219.9	7095.8	7066.1	7613.6	7805.1	8444.3	8857.0	8498.3
40°	7263.0	7260.3	7567.8	7683.8	7794.3	7743.1	8061.3	8126.1	8514.4	8821.9	8503.6
42.5°	7864.5	7826.7	8139.6	8320.3	8463.2	8468.6	8527.9	8506.3	8546.8	8643.9	8447.0
45°	8436.2	8517.1	8832.7	9156.3	9299.3	9315.4	8921.7	8881.2	8603.4	8592.6	8339.1
47.5°	9134.7	9153.6	9412.5	9838.7	10170.4	10057.1	9431.4	9342.4	8851.6	8935.2	8519.8
50°	9175.2	9315.4	9547.4	10049.0	11068.5	11038.8	10092.2	9925.0	9250.7	9420.6	9024.2
52.5°	8328.3	8296.0	8571.1	9391.0	11001.1	12015.1	11187.2	10788.0	10108.4	9978.9	9841.4
55°	6346.0	6421.6	6664.3	7492.3	9552.8	12028.6	12678.6	12352.3	11025.3	10804.2	10645.1
56°	5566.6	5577.4	5806.6	6561.8	8716.7	11599.8	12961.8	12697.5	11481.1	11144.0	10901.3
57.5°	4614.6	4552.5	4671.2	5083.8	7357.4	10693.6	12651.6	12910.5	12015.1	11510.8	11173.7
60°	3632.9	3619.4	3570.8	3646.3	4649.6	8055.9	10531.8	11114.3	11961.2	11165.6	10701.7
62.5°	2966.7	2899.3	2996.4	3104.2	3231.0	4997.5	7400.6	7743.1	9496.1	8913.6	8039.8
65°	2300.5	2268.2	2389.5	2740.2	2815.7	3174.4	4215.4	4479.7	5607.1	5507.3	4849.2
67.5°	1583.1	1588.5	1693.7	2227.7	2610.7	2578.3	2581.0	2718.6	2926.2	2173.8	1893.3
70°	1003.3	1000.6	1057.2	1434.8	2101.0	2122.5	2014.7	1974.2	1871.7	1132.7	1200.2
72.5°	644.6	625.7	655.4	792.9	1086.9	1256.8	1294.6	1318.8	1084.2	890.0	965.5
75°	364.1	345.2	334.4	369.5	428.8	496.2	544.8	561.0	628.4	674.3	714.7
77.5°	110.6	99.8	121.4	161.8	213.1	285.9	347.9	358.7	423.4	477.4	517.8
80°	48.5	53.9	75.5	107.9	151.0	202.3	245.4	261.6	304.8	345.2	356.0
82.5°	29.7	32.4	51.2	72.8	105.2	142.9	175.3	180.7	223.9	256.2	264.3
85°	10.8	13.5	27.0	43.2	67.4	91.7	91.7	99.8	91.7	91.7	99.8
87.5°	0.0	0.0	2.7	5.4	5.4	8.1	10.8	10.8	13.5	16.2	18.9
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°	6955.6	6955.6	6955.6	6955.6	6955.6	6955.6	6955.6	6955.6	6955.6	6955.6	6955.6
2.5°	6974.4	6961.0	6939.4	6861.2	6853.1	6828.8	6694.0	6672.4	6694.0	6629.2	6634.6
5°	6961.0	7001.4	6839.6	6761.4	6615.7	6510.6	6389.2	6327.2	6216.6	6146.5	6224.7
7.5°	7020.3	7004.1	6801.8	6631.9	6413.5	6146.5	5933.4	5812.0	5617.9	5563.9	5604.4
10°	6998.7	6912.4	6675.1	6451.2	6038.6	5803.9	5458.7	5124.3	4940.9	4846.5	4833.0
12.5°	6969.1	6944.8	6548.3	6162.6	5728.4	5234.9	4749.4	4433.9	4134.5	4005.0	4023.9
15°	7004.1	6799.1	6311.0	5822.8	5245.7	4598.4	4075.2	3667.9	3460.3	3376.6	3376.6
17.5°	6987.9	6729.0	6197.7	5442.5	4711.7	3945.7	3371.3	3125.8	3039.5	3039.5	3063.8
20°	6996.0	6774.9	5968.5	5062.3	4080.6	3322.7	2904.7	2815.7	2853.4	2866.9	2880.4
22.5°	7041.9	6623.8	5744.6	4644.2	3495.3	2842.6	2637.7	2640.4	2707.8	2780.6	2767.1
25°	7098.5	6564.5	5472.2	4228.9	3047.6	2608.0	2543.3	2535.2	2586.4	2624.2	2629.6
27.5°	7050.0	6462.0	5194.4	3711.1	2680.8	2451.6	2438.1	2443.5	2459.7	2535.2	2510.9
30°	7209.1	6491.7	4846.5	3276.9	2478.5	2400.3	2384.1	2376.1	2400.3	2421.9	2403.0
32.5°	7406.0	6386.5	4587.6	2858.8	2378.8	2362.6	2330.2	2319.4	2332.9	2311.3	2322.1
35°	7492.3	6367.6	4250.5	2559.5	2300.5	2287.1	2268.2	2265.5	2268.2	2249.3	2233.1
37.5°	7540.8	6456.6	3864.8	2421.9	2252.0	2265.5	2222.3	2216.9	2168.4	2179.2	2187.3
40°	7624.4	6319.1	3552.0	2289.8	2222.3	2195.4	2157.6	2149.5	2117.1	2098.3	2117.1
42.5°	7503.1	6278.6	3244.5	2233.1	2179.2	2149.5	2122.5	2076.7	2065.9	2049.7	2038.9
45°	7406.0	6046.7	2969.4	2163.0	2127.9	2111.8	2060.5	2012.0	1971.5	1987.7	1963.4
47.5°	7478.8	5965.8	2697.0	2103.7	2057.8	2038.9	1987.7	1949.9	1909.5	1890.6	1885.2
50°	7770.1	6116.8	2467.8	2060.5	1998.5	1987.7	1920.3	1877.1	1839.4	1825.9	1831.3
52.5°	8465.9	6529.4	2311.3	1971.5	1941.8	1893.3	1855.5	1801.6	1777.3	1734.2	1761.1
55°	9347.8	7201.0	2270.9	1887.9	1871.7	1828.6	1777.3	1736.9	1691.0	1656.0	1647.9
56°	9631.0	7521.9	2238.5	1855.5	1828.6	1804.3	1736.9	1712.6	1639.8	1631.7	1626.3
57.5°	9860.2	7805.1	2243.9	1793.5	1766.5	1745.0	1704.5	1645.2	1596.6	1567.0	1580.4
60°	9342.4	7306.2	2141.4	1699.1	1693.7	1653.3	1596.6	1569.7	1510.3	1475.3	1467.2
62.5°	6944.8	4959.8	1736.9	1577.7	1575.0	1531.9	1467.2	1437.5	1426.7	1378.2	1378.2
65°	3999.7	3109.6	1502.2	1478.0	1456.4	1413.2	1348.5	1324.2	1297.3	1281.1	1267.6
67.5°	1707.2	1612.8	1364.7	1362.0	1337.7	1283.8	1219.0	1181.3	1146.2	1113.9	1130.0
70°	1237.9	1256.8	1232.5	1219.0	1189.4	1122.0	1065.3	1019.5	965.5	944.0	960.1
72.5°	981.7	1022.2	1057.2	1059.9	1024.9	946.6	884.6	822.6	763.3	733.6	747.1
75°	744.4	771.3	806.4	814.5	763.3	709.3	650.0	585.2	539.4	504.3	509.7
77.5°	536.7	531.3	563.7	558.3	534.0	496.2	442.3	383.0	331.7	299.4	302.1
80°	366.8	374.9	393.8	391.1	361.4	337.1	296.7	248.1	210.4	183.4	178.0
82.5°	256.2	269.7	285.9	272.4	248.1	223.9	194.2	159.1	129.5	107.9	102.5
85°	91.7	105.2	121.4	129.5	137.5	132.2	110.6	89.0	64.7	53.9	51.2
87.5°	18.9	21.6	24.3	24.3	24.3	21.6	18.9	18.9	16.2	8.1	8.1
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)