

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: P530165

Luminaire Tested: **GALN-SA5B-760-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530165
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5B-760-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18846 lumens
Efficiency: N/A
Efficacy: 92.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B2 - U0 - G1

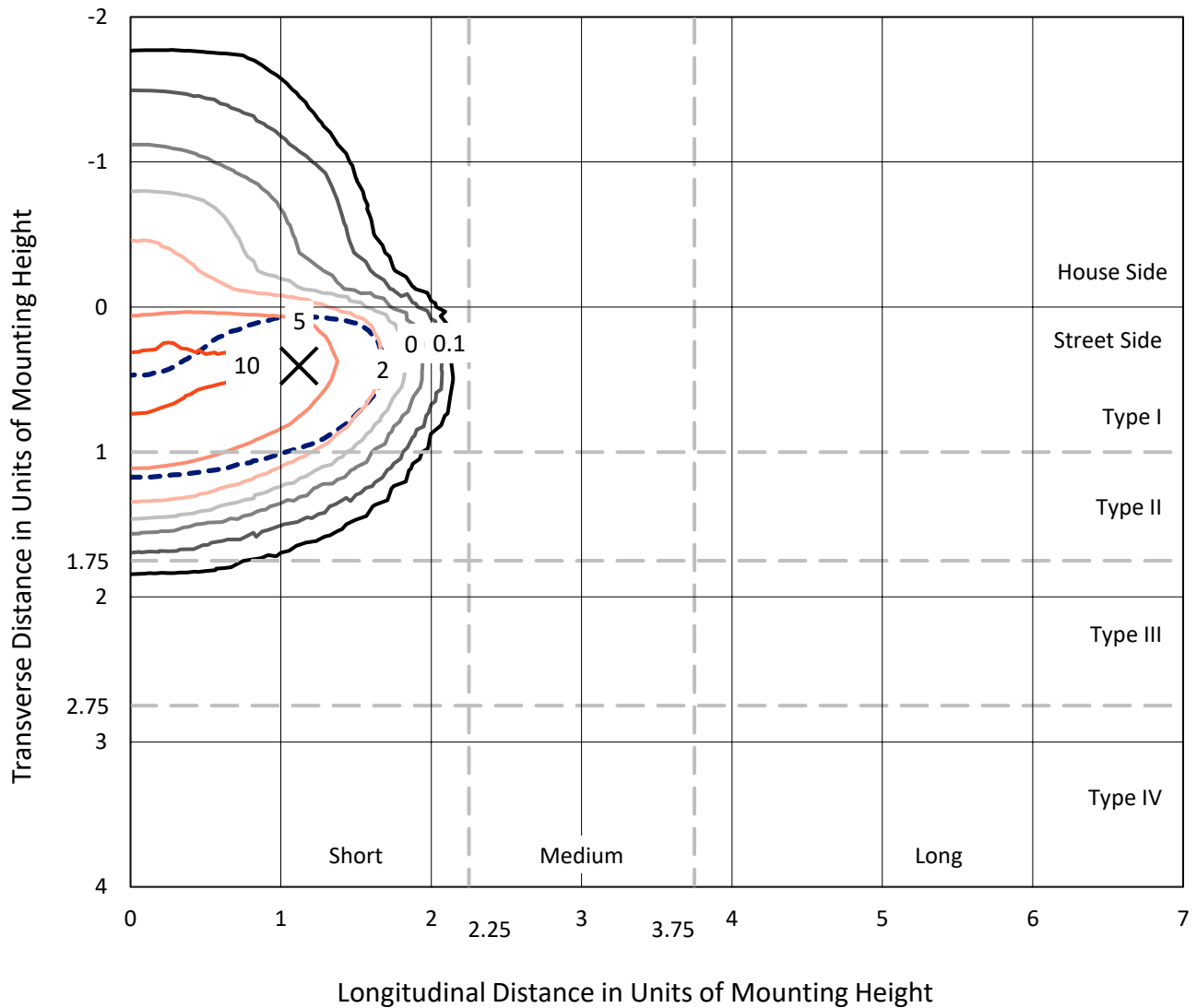
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

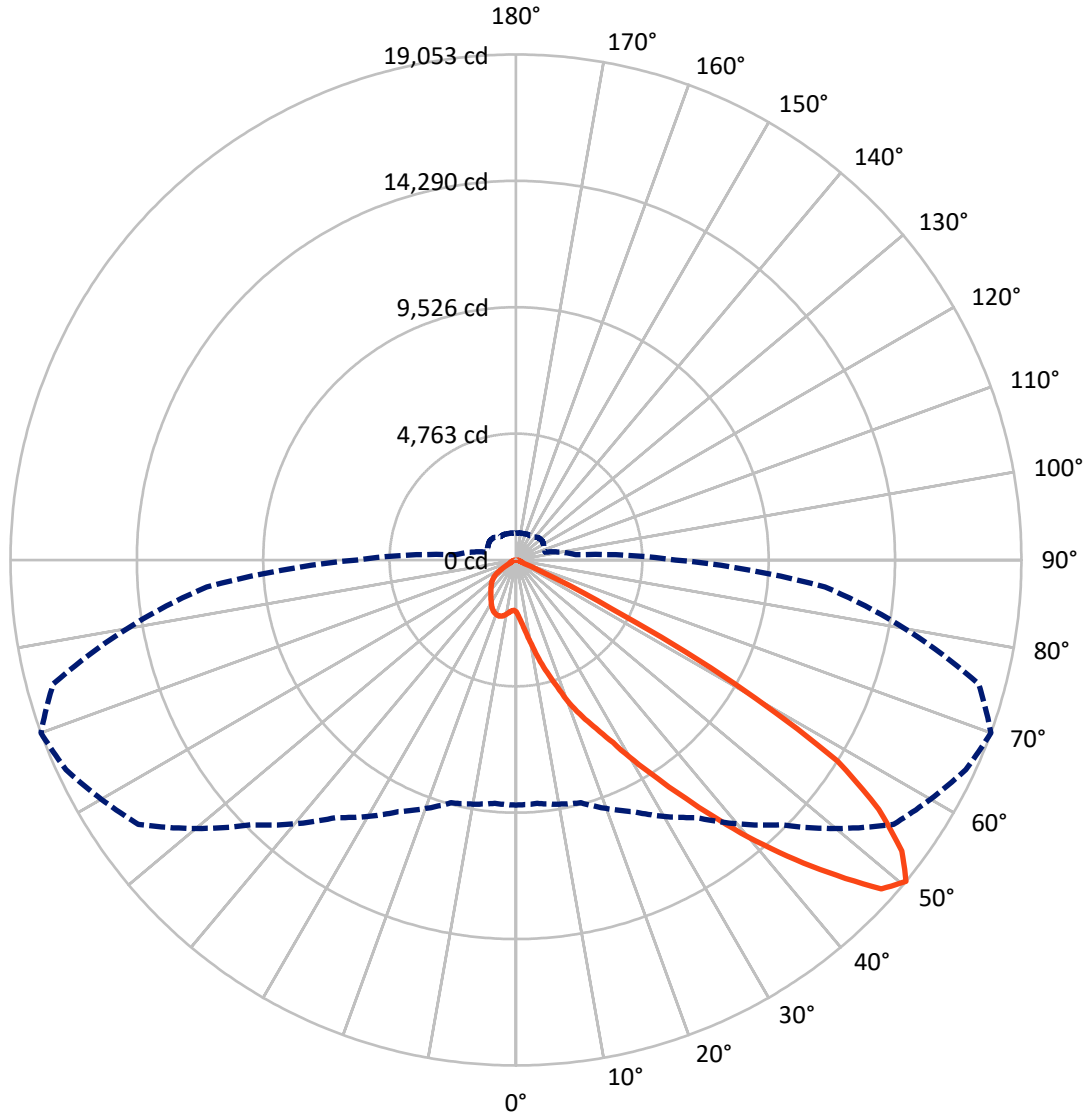
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.2 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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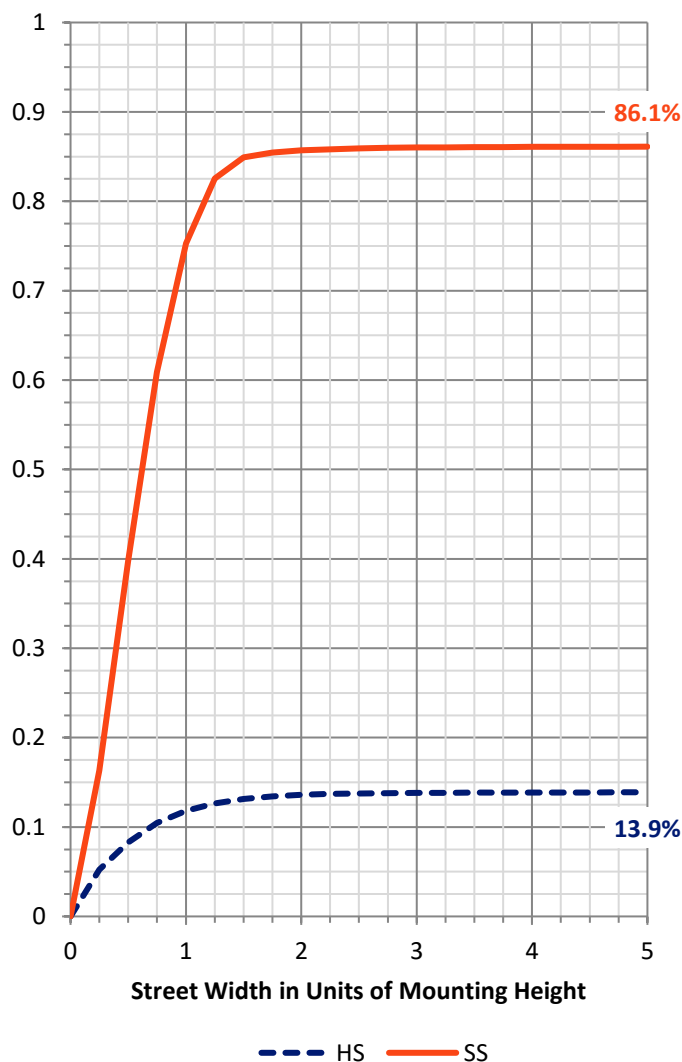
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2632.0	0.0	2632.0
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	16214.0	0.0	16214.0
	% Fixture	86.0	0.0	86.0
Total	Lumens	18846.0	0.0	18846.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	253.8	1.3
10°-20°	1098.0	5.8
20°-30°	2303.5	12.2
30°-40°	3970.4	21.1
40°-50°	5802.7	30.8
50°-60°	4519.4	24.0
60°-70°	765.7	4.1
70°-80°	105.2	0.6
80°-90°	27.3	0.1
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°	18846.0	100.0
0°-180°	18846.0	100.0

Coefficient of Utilization



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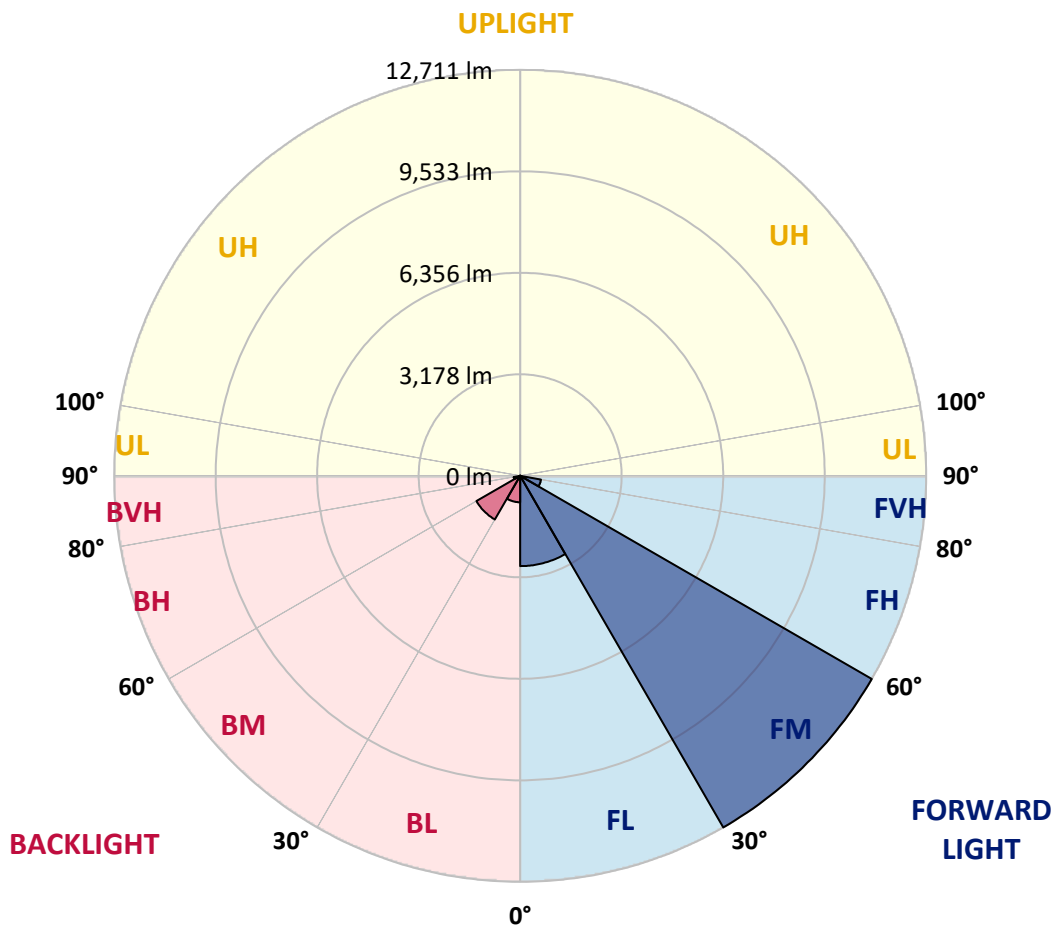
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2827.1	15.0			
FM (30°-60°)	12711.3	67.4			
FH (60°-80°)	663.0	3.5			G1/1800
FVH (80°-90°)	12.6	0.1			G1/100
BL (0°-30°)	828.2	4.4	B2/1000		
BM (30°-60°)	1581.2	8.4	B2/2500		
BH (60°-80°)	207.9	1.1	B1/500		G1/500
BVH (80°-90°)	14.7	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	1952.1	1952.1	1952.1	1952.1	1952.1	1952.1	1952.1	1952.1	1952.1	1952.1	1952.1
2.5°	2556.3	2537.7	2497.4	2423.1	2392.1	2317.7	2274.3	2190.7	2138.0	2079.1	2014.0
5°	3600.5	3504.4	3445.6	3361.9	3117.1	2965.3	2714.3	2500.5	2401.4	2292.9	2144.2
7.5°	4678.8	4616.8	4536.2	4356.5	4189.2	3873.2	3442.5	2971.5	2770.1	2584.2	2289.8
10°	5571.2	5397.6	5388.3	5255.1	5072.3	4694.3	4176.8	3591.2	3231.8	2959.1	2497.4
12.5°	6194.0	6035.9	6107.2	6091.7	5921.3	5574.3	4976.2	4201.6	3826.7	3402.2	2711.2
15°	6761.0	6695.9	6674.2	6655.6	6587.5	6330.3	5794.3	4945.3	4403.0	3891.8	2952.9
17.5°	7315.6	7148.3	7228.9	7244.4	7238.2	7005.8	6503.8	5651.7	5013.4	4409.2	3207.0
20°	7808.3	7823.8	7715.3	7693.7	7675.1	7665.8	7176.2	6352.0	5763.3	4951.5	3538.5
22.5°	8440.4	8331.9	8428.0	8366.0	8245.2	8170.8	7795.9	6971.7	6414.0	5605.2	3876.3
25°	9187.1	9273.9	9047.7	9022.9	8889.7	8632.5	8294.8	7665.8	7039.9	6212.6	4241.9
27.5°	10107.4	9955.6	9896.7	9760.4	9518.7	9410.2	9013.6	8381.5	7795.9	6850.9	4595.1
30°	10897.5	10857.3	10562.9	10401.8	10191.1	10188.0	9633.3	9351.4	8781.2	7851.7	5081.6
32.5°	11542.0	11365.4	11257.0	11145.4	10975.0	11021.5	10553.6	10404.9	9831.6	8781.2	5654.8
35°	11972.7	11845.7	11780.6	11610.2	11560.6	11768.2	11573.0	11511.0	11040.1	10088.8	6327.2
37.5°	12109.1	12149.3	12136.9	11923.1	12028.5	12589.3	12840.3	12679.2	12431.3	11467.7	7055.4
40°	12229.9	12257.8	12195.8	12446.8	12747.4	13385.7	14293.5	14027.0	13934.1	12865.1	8068.6
42.5°	12298.1	12276.4	12276.4	12710.2	13165.7	14448.4	15697.2	15520.5	15449.3	14352.4	9239.8
45°	12003.7	11793.0	12019.2	12607.9	13525.1	14972.1	16818.8	17063.6	16961.4	16121.7	10609.4
47.5°	10903.7	11033.9	11160.9	11947.9	13088.2	14811.0	17506.7	18340.2	18529.2	17609.0	11507.9
50°	9239.8	9211.9	9475.3	10466.8	11851.9	14116.9	17373.5	18708.9	19052.9	18055.1	11697.0
52.5°	6720.7	6925.2	7210.3	8195.6	9837.8	12319.8	15653.8	17757.7	18216.3	17506.7	11573.0
55°	3913.4	3687.3	4328.6	5162.2	6711.4	9292.5	13233.8	15740.5	16589.5	16509.0	10947.1
57.5°	1567.9	1518.3	1738.3	2342.5	3501.3	5760.2	9624.0	12933.3	14293.5	15120.8	9620.9
60°	687.9	672.4	790.1	954.3	1431.5	2655.4	5264.4	8043.8	9462.9	10566.0	6621.6
62.5°	495.8	489.6	548.4	607.3	756.0	1155.8	2212.4	3241.1	4040.5	4880.2	2965.3
65°	399.7	415.2	455.5	486.5	557.7	641.4	780.8	901.7	1106.2	1146.5	653.8
67.5°	325.3	337.7	374.9	409.0	421.4	347.0	359.4	316.1	316.1	282.0	226.2
70°	238.6	241.7	285.1	325.3	260.3	139.4	244.8	244.8	220.0	210.7	192.1
72.5°	176.6	179.7	213.8	201.4	102.3	86.8	179.7	198.3	179.7	170.4	154.9
75°	130.1	133.2	111.5	46.5	43.4	55.8	105.4	136.3	130.1	127.0	117.7
77.5°	24.8	18.6	15.5	21.7	31.0	46.5	68.2	83.7	86.8	93.0	86.8
80°	3.1	3.1	9.3	18.6	34.1	49.6	71.3	80.6	83.7	86.8	80.6
82.5°	0.0	3.1	9.3	18.6	34.1	46.5	62.0	71.3	77.5	80.6	77.5
85°	0.0	3.1	6.2	15.5	27.9	34.1	31.0	21.7	18.6	21.7	15.5
87.5°	0.0	0.0	3.1	3.1	6.2	6.2	6.2	6.2	6.2	6.2	6.2
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°	1952.1	1952.1	1952.1	1952.1	1952.1	1952.1	1952.1	1952.1	1952.1	1952.1	1952.1
2.5°	1976.9	1964.5	1921.1	1874.6	1834.3	1852.9	1834.3	1818.8	1825.0	1818.8	1812.6
5°	2085.3	2029.5	1936.6	1896.3	1862.2	1859.1	1849.8	1846.7	1849.8	1849.8	1821.9
7.5°	2187.6	2097.7	1998.6	1955.2	1914.9	1918.0	1896.3	1896.3	1893.2	1877.7	1871.5
10°	2342.5	2221.6	2094.6	2017.1	1967.6	1958.3	1936.6	1914.9	1914.9	1914.9	1883.9
12.5°	2512.9	2361.1	2187.6	2097.7	2038.8	1992.4	1958.3	1952.1	1918.0	1911.8	1896.3
15°	2661.6	2469.5	2249.5	2125.6	2051.2	1989.3	1936.6	1902.5	1887.0	1877.7	1865.3
17.5°	2807.3	2562.5	2283.6	2125.6	2045.0	1973.8	1918.0	1887.0	1849.8	1856.0	1831.2
20°	3002.5	2661.6	2292.9	2085.3	1986.2	1918.0	1843.6	1828.1	1806.4	1787.9	1794.0
22.5°	3191.5	2732.9	2265.0	2035.7	1893.2	1812.6	1775.5	1756.9	1747.6	1732.1	1710.4
25°	3361.9	2810.4	2221.6	1945.9	1794.0	1735.2	1701.1	1698.0	1676.3	1676.3	1636.0
27.5°	3535.4	2838.3	2147.3	1840.5	1707.3	1673.2	1657.7	1651.5	1642.2	1620.5	1592.6
30°	3733.7	2847.5	2038.8	1732.1	1629.8	1592.6	1614.3	1629.8	1589.5	1549.3	1561.7
32.5°	3898.0	2825.9	1908.7	1629.8	1574.1	1555.5	1598.8	1614.3	1567.9	1524.5	1502.8
35°	4096.3	2773.2	1781.7	1549.3	1518.3	1555.5	1592.6	1592.6	1499.7	1447.0	1434.6
37.5°	4396.8	2714.3	1663.9	1481.1	1459.4	1536.9	1586.4	1552.4	1406.7	1341.7	1326.2
40°	4719.1	2677.1	1549.3	1412.9	1428.4	1505.9	1533.8	1428.4	1279.7	1239.4	1227.0
42.5°	5186.9	2602.8	1447.0	1354.1	1400.5	1462.5	1462.5	1273.5	1217.7	1196.0	1192.9
45°	5769.5	2550.1	1357.2	1304.5	1360.3	1375.7	1326.2	1192.9	1152.7	1146.5	1149.6
47.5°	6054.5	2447.8	1264.2	1245.6	1285.9	1289.0	1158.9	1127.9	1093.8	1084.5	1078.3
50°	6011.2	2265.0	1143.4	1168.1	1223.9	1192.9	1056.6	1062.8	1031.8	1028.7	1013.2
52.5°	5707.5	1976.9	1022.5	1081.4	1143.4	1053.5	972.9	966.7	966.7	926.5	911.0
55°	5059.9	1592.6	876.9	951.2	1025.6	886.2	864.5	858.3	842.8	805.6	796.3
57.5°	4006.4	1168.1	660.0	740.5	870.7	752.9	749.8	722.0	681.7	653.8	653.8
60°	2382.8	672.4	415.2	452.4	576.3	610.4	678.6	666.2	598.0	554.6	542.2
62.5°	1087.6	347.0	263.4	269.6	309.9	396.6	532.9	616.6	520.6	446.2	440.0
65°	365.6	257.2	216.9	207.6	213.8	238.6	319.1	436.9	415.2	343.9	331.5
67.5°	223.1	229.3	204.5	189.0	189.0	185.9	182.8	198.3	244.8	238.6	241.7
70°	192.1	210.7	189.0	170.4	164.2	154.9	130.1	108.4	93.0	108.4	114.6
72.5°	154.9	167.3	161.1	145.6	130.1	117.7	93.0	71.3	52.7	46.5	46.5
75°	114.6	123.9	130.1	111.5	99.2	83.7	68.2	46.5	27.9	18.6	18.6
77.5°	83.7	93.0	96.1	86.8	74.4	58.9	43.4	31.0	15.5	6.2	6.2
80°	71.3	83.7	93.0	86.8	77.5	55.8	40.3	21.7	12.4	3.1	3.1
82.5°	68.2	83.7	93.0	83.7	74.4	52.7	40.3	24.8	9.3	3.1	3.1
85°	15.5	21.7	27.9	34.1	40.3	40.3	31.0	18.6	9.3	3.1	3.1
87.5°	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	3.1	3.1	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)