

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: P529463

Luminaire Tested: **GALN-SA4C-760-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529463
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-SA4C-760-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5700K, 1050mA 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: 18394 lumens
Efficiency: N/A
Efficacy: 86.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B2 - U0 - G1

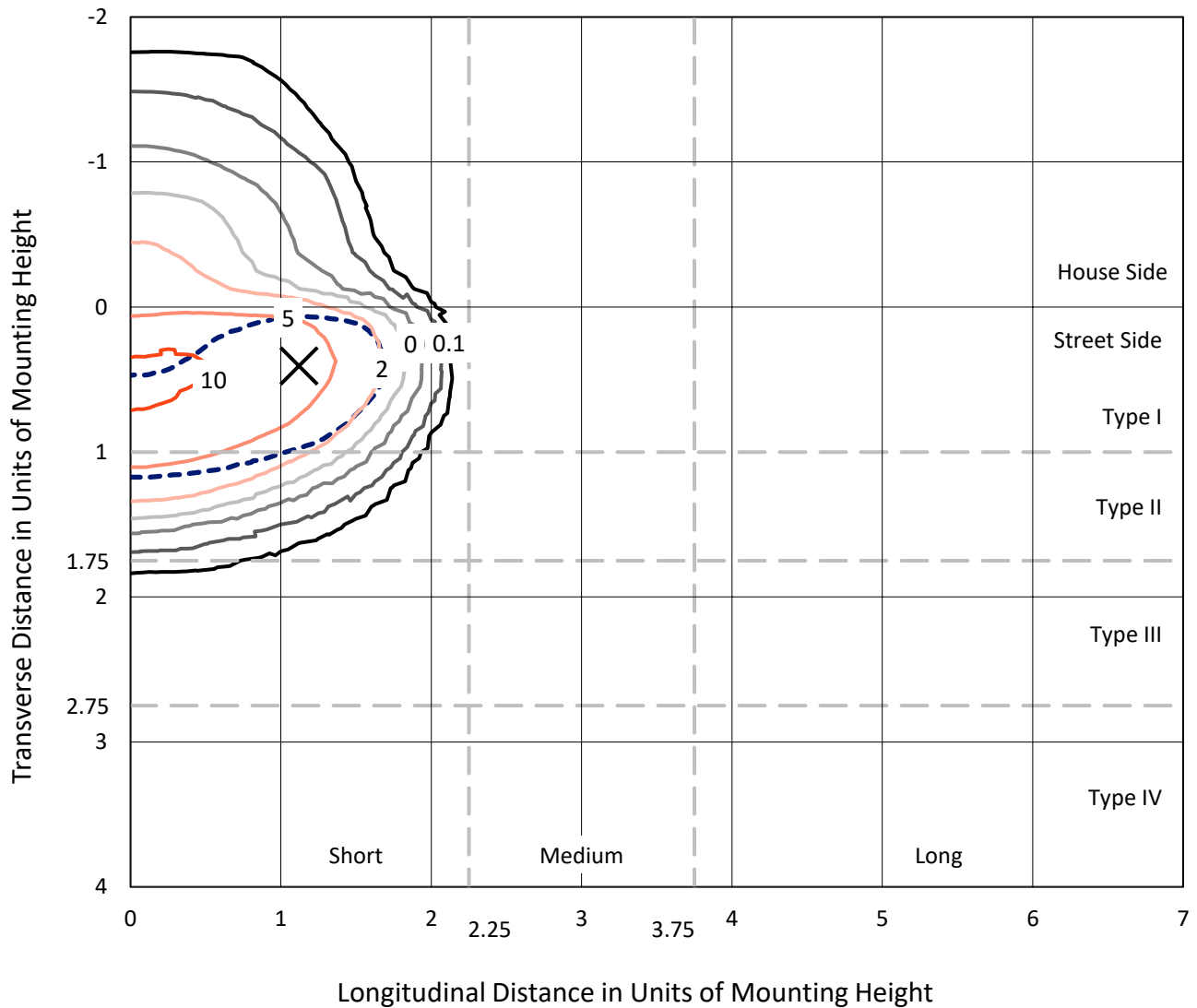
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

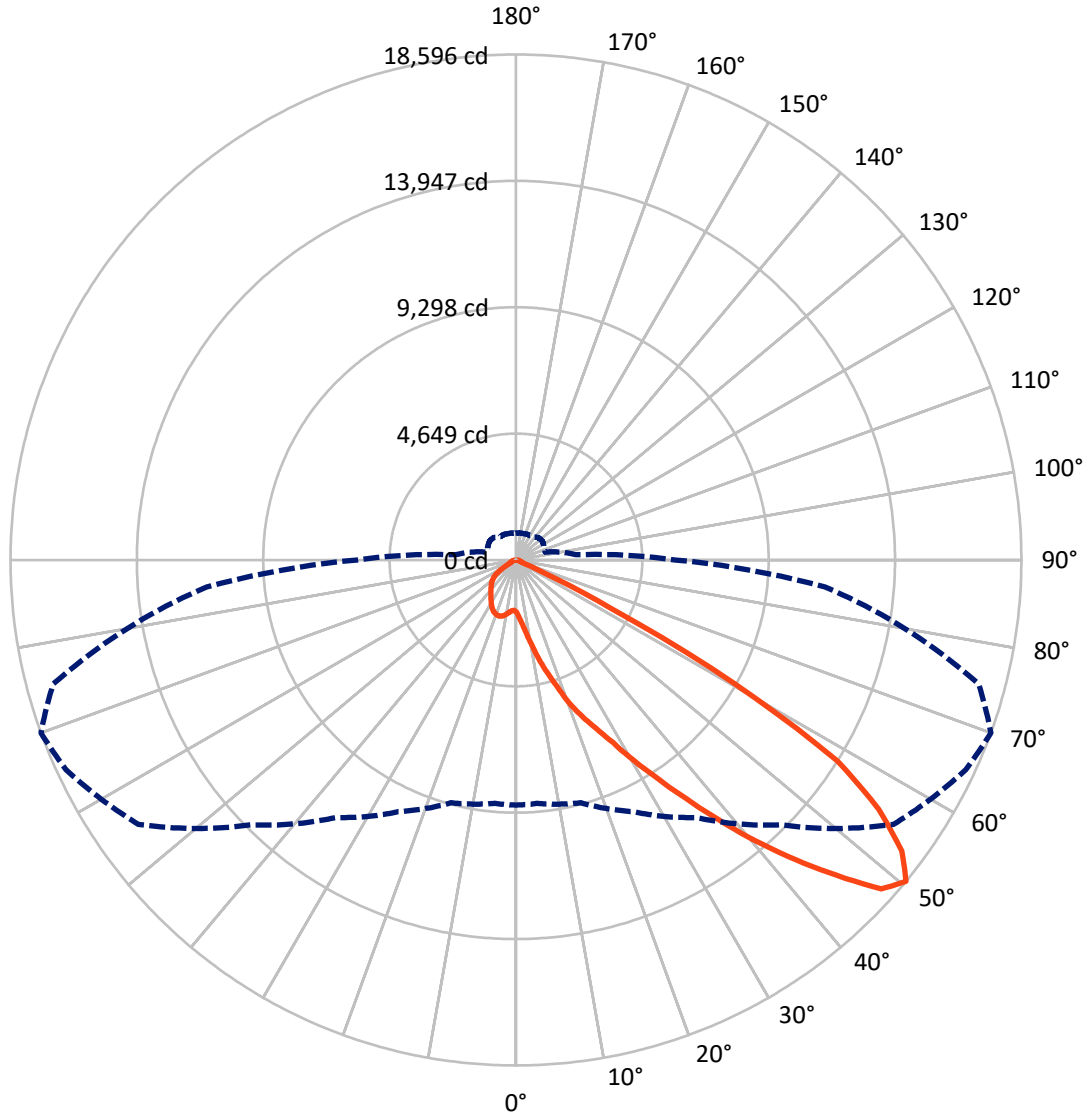
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 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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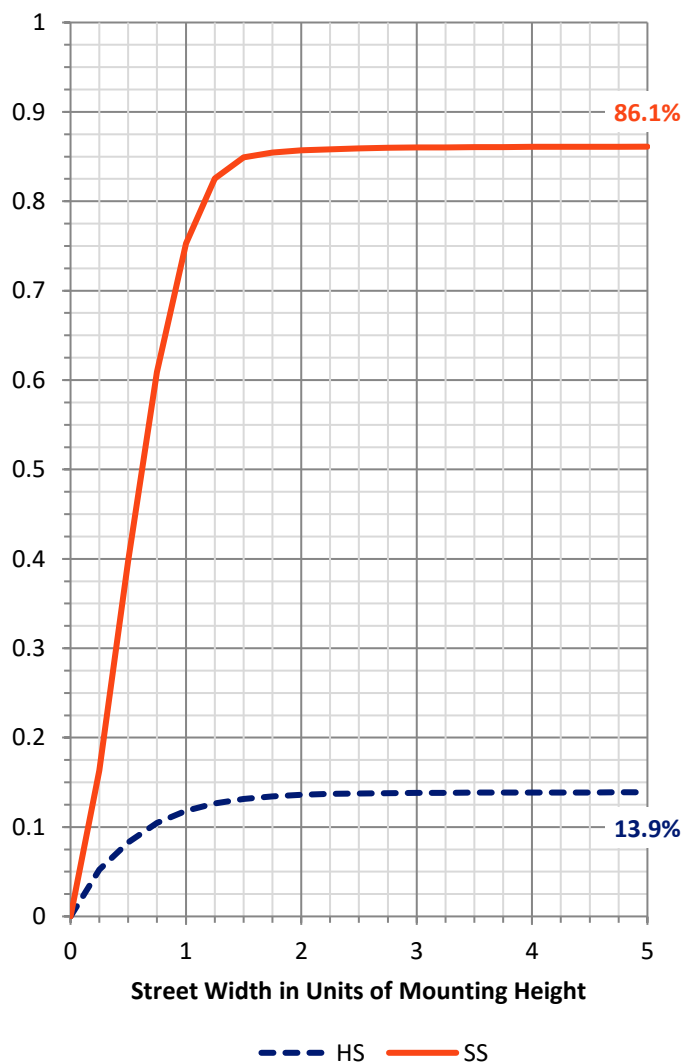
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2568.8	0.0	2568.8
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	15825.1	0.0	15825.1
	% Fixture	86.0	0.0	86.0
Total	Lumens	18394.0	0.0	18394.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	247.8	1.3
10°-20°	1071.7	5.8
20°-30°	2248.2	12.2
30°-40°	3875.2	21.1
40°-50°	5663.5	30.8
50°-60°	4411.0	24.0
60°-70°	747.3	4.1
70°-80°	102.7	0.6
80°-90°	26.6	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°	18394.0	100.0
0°-180°	18394.0	100.0

Coefficient of Utilization



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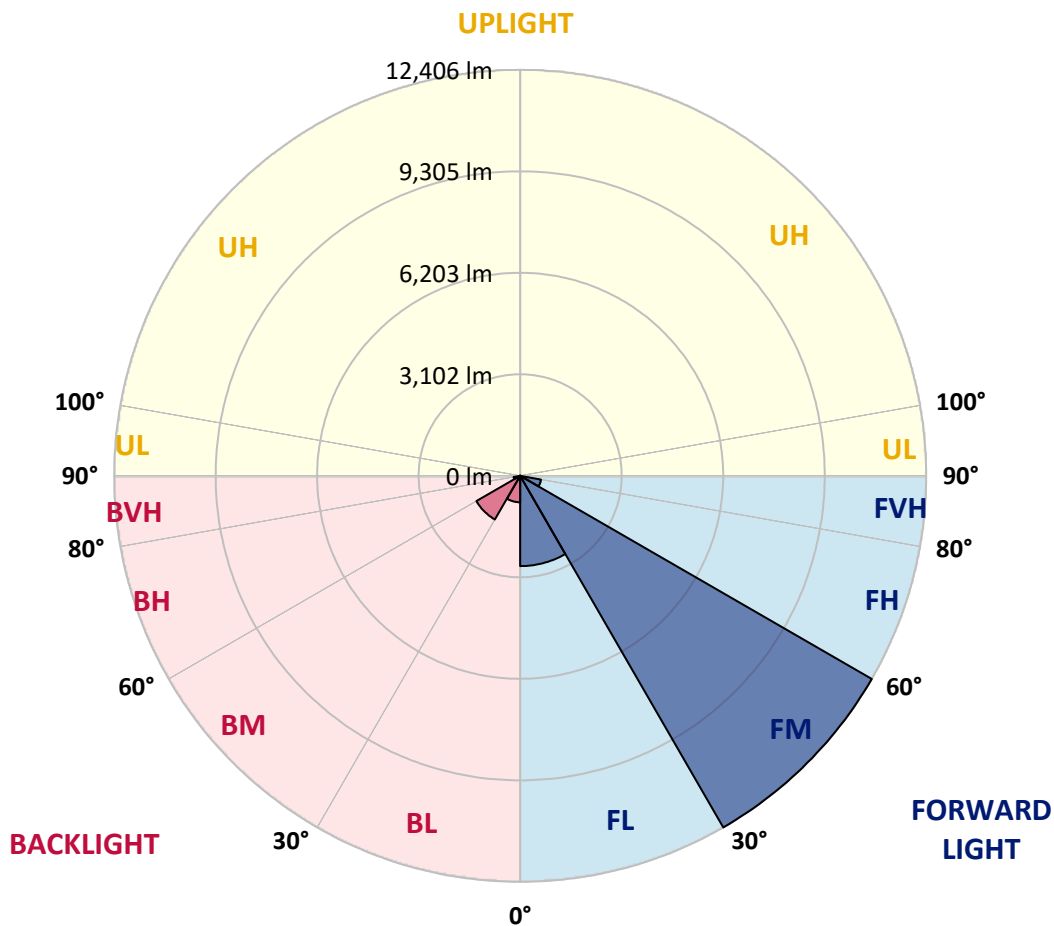
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2759.3	15.0			
FM (30°-60°)	12406.4	67.4			
FH (60°-80°)	647.1	3.5			G0/660
FVH (80°-90°)	12.3	0.1			G1/100
BL (0°-30°)	808.4	4.4	B2/1000		
BM (30°-60°)	1543.3	8.4	B2/2500		
BH (60°-80°)	202.9	1.1	B1/500		G1/500
BVH (80°-90°)	14.3	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°	1905.3	1905.3	1905.3	1905.3	1905.3	1905.3	1905.3	1905.3	1905.3	1905.3	1905.3
2.5°	2495.0	2476.8	2437.5	2364.9	2334.7	2262.1	2219.8	2138.1	2086.7	2029.2	1965.7
5°	3514.1	3420.4	3362.9	3281.3	3042.4	2894.2	2649.2	2440.5	2343.8	2237.9	2092.8
7.5°	4566.6	4506.1	4427.5	4252.0	4088.7	3780.3	3359.9	2900.2	2703.6	2522.2	2234.9
10°	5437.5	5268.2	5259.1	5129.1	4950.6	4581.7	4076.6	3505.1	3154.3	2888.1	2437.5
12.5°	6045.4	5891.2	5960.7	5945.6	5779.3	5440.6	4856.9	4100.8	3734.9	3320.6	2646.2
15°	6598.8	6535.3	6514.2	6496.0	6429.5	6178.5	5655.3	4826.6	4297.4	3798.4	2882.1
17.5°	7140.2	6976.9	7055.5	7070.6	7064.6	6837.8	6347.8	5516.2	4893.2	4303.5	3130.1
20°	7621.0	7636.1	7530.3	7509.1	7491.0	7481.9	7004.1	6199.6	5625.0	4832.7	3453.7
22.5°	8238.0	8132.1	8225.9	8165.4	8047.4	7974.9	7608.9	6804.5	6260.1	5470.8	3783.3
25°	8966.8	9051.5	8830.7	8806.5	8676.5	8425.5	8095.8	7481.9	6871.0	6063.6	4140.2
27.5°	9865.0	9716.8	9659.3	9526.3	9290.4	9184.5	8797.4	8180.5	7608.9	6686.5	4484.9
30°	10636.2	10596.9	10309.6	10152.3	9946.6	9943.6	9402.3	9127.1	8570.6	7663.4	4959.7
32.5°	11265.2	11092.8	10987.0	10878.1	10711.8	10757.1	10300.5	10155.3	9595.8	8570.6	5519.2
35°	11685.6	11561.6	11498.1	11331.7	11283.4	11486.0	11295.4	11235.0	10775.3	9846.8	6175.4
37.5°	11818.6	11858.0	11845.9	11637.2	11740.0	12287.4	12532.4	12375.1	12133.2	11192.6	6886.1
40°	11936.6	11963.8	11903.3	12148.3	12441.6	13064.6	13950.7	13690.6	13599.9	12556.5	7875.1
42.5°	12003.1	11981.9	11981.9	12405.3	12849.9	14101.9	15320.7	15148.3	15078.7	14008.2	9018.2
45°	11715.8	11510.2	11730.9	12305.5	13200.7	14613.0	16415.4	16654.4	16554.6	15735.0	10354.9
47.5°	10642.2	10769.2	10893.2	11661.4	12774.3	14455.8	17086.8	17900.3	18084.8	17186.6	11231.9
50°	9018.2	8991.0	9248.1	10215.8	11567.6	13778.3	16956.8	18260.2	18595.9	17622.1	11416.4
52.5°	6559.5	6759.1	7037.4	7999.1	9601.9	12024.3	15278.3	17331.8	17779.4	17086.8	11295.4
55°	3819.6	3598.8	4224.8	5038.3	6550.5	9069.6	12916.4	15363.0	16191.7	16113.0	10684.6
57.5°	1530.3	1481.9	1696.6	2286.3	3417.4	5622.0	9393.2	12623.1	13950.7	14758.2	9390.2
60°	671.4	656.3	771.2	931.5	1397.2	2591.8	5138.1	7850.9	9236.0	10312.6	6462.7
62.5°	483.9	477.8	535.3	592.7	737.9	1128.0	2159.3	3163.3	3943.6	4763.1	2894.2
65°	390.1	405.2	444.6	474.8	544.4	626.0	762.1	880.0	1079.6	1119.0	638.1
67.5°	317.5	329.6	365.9	399.2	411.3	338.7	350.8	308.5	308.5	275.2	220.8
70°	232.9	235.9	278.2	317.5	254.0	136.1	238.9	238.9	214.7	205.6	187.5
72.5°	172.4	175.4	208.7	196.6	99.8	84.7	175.4	193.5	175.4	166.3	151.2
75°	127.0	130.0	108.9	45.4	42.3	54.4	102.8	133.1	127.0	124.0	114.9
77.5°	24.2	18.1	15.1	21.2	30.2	45.4	66.5	81.7	84.7	90.7	84.7
80°	3.0	3.0	9.1	18.1	33.3	48.4	69.6	78.6	81.7	84.7	78.6
82.5°	0.0	3.0	9.1	18.1	33.3	45.4	60.5	69.6	75.6	78.6	75.6
85°	0.0	3.0	6.0	15.1	27.2	33.3	30.2	21.2	18.1	21.2	15.1
87.5°	0.0	0.0	3.0	3.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
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°	1905.3	1905.3	1905.3	1905.3	1905.3	1905.3	1905.3	1905.3	1905.3	1905.3	1905.3
2.5°	1929.4	1917.4	1875.0	1829.7	1790.3	1808.5	1790.3	1775.2	1781.3	1775.2	1769.2
5°	2035.3	1980.9	1890.1	1850.8	1817.6	1814.5	1805.5	1802.4	1805.5	1805.5	1778.2
7.5°	2135.1	2047.4	1950.6	1908.3	1869.0	1872.0	1850.8	1850.8	1847.8	1832.7	1826.6
10°	2286.3	2168.4	2044.4	1968.8	1920.4	1911.3	1890.1	1869.0	1869.0	1869.0	1838.7
12.5°	2452.6	2304.5	2135.1	2047.4	1989.9	1944.6	1911.3	1905.3	1872.0	1865.9	1850.8
15°	2597.8	2410.3	2195.6	2074.6	2002.0	1941.5	1890.1	1856.9	1841.7	1832.7	1820.6
17.5°	2739.9	2501.0	2228.8	2074.6	1996.0	1926.4	1872.0	1841.7	1805.5	1811.5	1787.3
20°	2930.5	2597.8	2237.9	2035.3	1938.5	1872.0	1799.4	1784.3	1763.1	1745.0	1751.0
22.5°	3114.9	2667.4	2210.7	1986.9	1847.8	1769.2	1732.9	1714.7	1705.7	1690.5	1669.4
25°	3281.3	2743.0	2168.4	1899.2	1751.0	1693.6	1660.3	1657.3	1636.1	1636.1	1596.8
27.5°	3450.6	2770.2	2095.8	1796.4	1666.3	1633.1	1618.0	1611.9	1602.8	1581.7	1554.4
30°	3644.2	2779.3	1989.9	1690.5	1590.7	1554.4	1575.6	1590.7	1551.4	1512.1	1524.2
32.5°	3804.5	2758.1	1862.9	1590.7	1536.3	1518.2	1560.5	1575.6	1530.3	1487.9	1466.7
35°	3998.0	2706.7	1738.9	1512.1	1481.9	1518.2	1554.4	1554.4	1463.7	1412.3	1400.2
37.5°	4291.4	2649.2	1624.0	1445.6	1424.4	1500.0	1548.4	1515.1	1373.0	1309.5	1294.4
40°	4605.9	2612.9	1512.1	1379.0	1394.2	1469.8	1497.0	1394.2	1249.0	1209.7	1197.6
42.5°	5062.5	2540.3	1412.3	1321.6	1366.9	1427.4	1427.4	1243.0	1188.5	1167.3	1164.3
45°	5631.1	2488.9	1324.6	1273.2	1327.6	1342.8	1294.4	1164.3	1125.0	1119.0	1122.0
47.5°	5909.3	2389.1	1233.9	1215.7	1255.0	1258.1	1131.1	1100.8	1067.5	1058.5	1052.4
50°	5867.0	2210.7	1115.9	1140.1	1194.6	1164.3	1031.3	1037.3	1007.1	1004.0	988.9
52.5°	5570.6	1929.4	998.0	1055.5	1115.9	1028.2	949.6	943.6	943.6	904.2	889.1
55°	4938.5	1554.4	855.9	928.4	1001.0	864.9	843.8	837.7	822.6	786.3	777.2
57.5°	3910.3	1140.1	644.2	722.8	849.8	734.9	731.9	704.6	665.3	638.1	638.1
60°	2325.6	656.3	405.2	441.5	562.5	595.8	662.3	650.2	583.7	541.3	529.2
62.5°	1061.5	338.7	257.1	263.1	302.4	387.1	520.2	601.8	508.1	435.5	429.4
65°	356.9	251.0	211.7	202.6	208.7	232.9	311.5	426.4	405.2	335.7	323.6
67.5°	217.7	223.8	199.6	184.5	184.5	181.5	178.4	193.5	238.9	232.9	235.9
70°	187.5	205.6	184.5	166.3	160.3	151.2	127.0	105.8	90.7	105.8	111.9
72.5°	151.2	163.3	157.3	142.1	127.0	114.9	90.7	69.6	51.4	45.4	45.4
75°	111.9	121.0	127.0	108.9	96.8	81.7	66.5	45.4	27.2	18.1	18.1
77.5°	81.7	90.7	93.8	84.7	72.6	57.5	42.3	30.2	15.1	6.0	6.0
80°	69.6	81.7	90.7	84.7	75.6	54.4	39.3	21.2	12.1	3.0	3.0
82.5°	66.5	81.7	90.7	81.7	72.6	51.4	39.3	24.2	9.1	3.0	3.0
85°	15.1	21.2	27.2	33.3	39.3	39.3	30.2	18.1	9.1	3.0	3.0
87.5°	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	3.0	3.0	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)