

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: P530269

Luminaire Tested: **GALN-SA5C-727-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530269
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-SA5C-727-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 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: 19474 lumens
Efficiency: N/A
Efficacy: 72.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B2 - U0 - G1

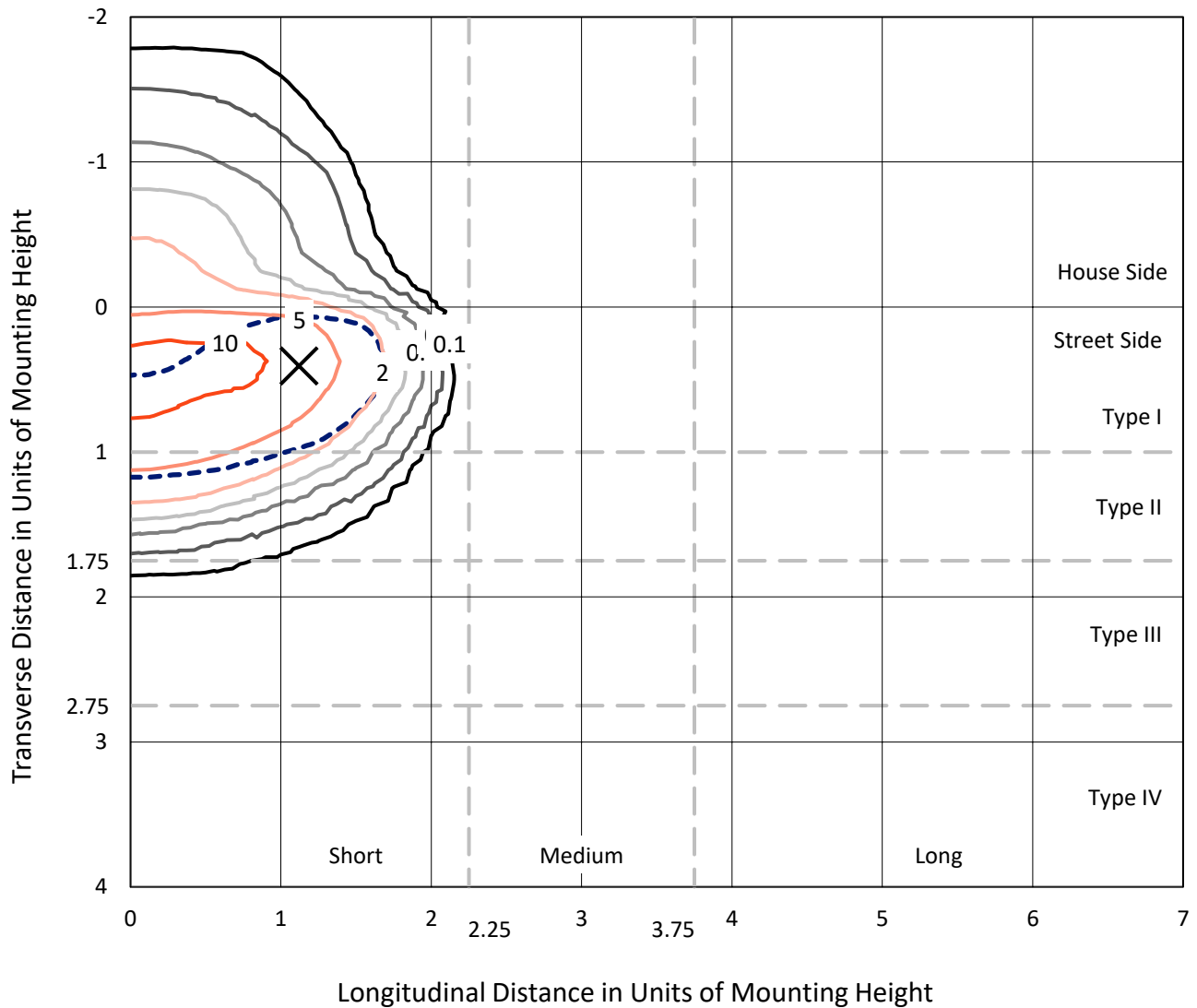
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

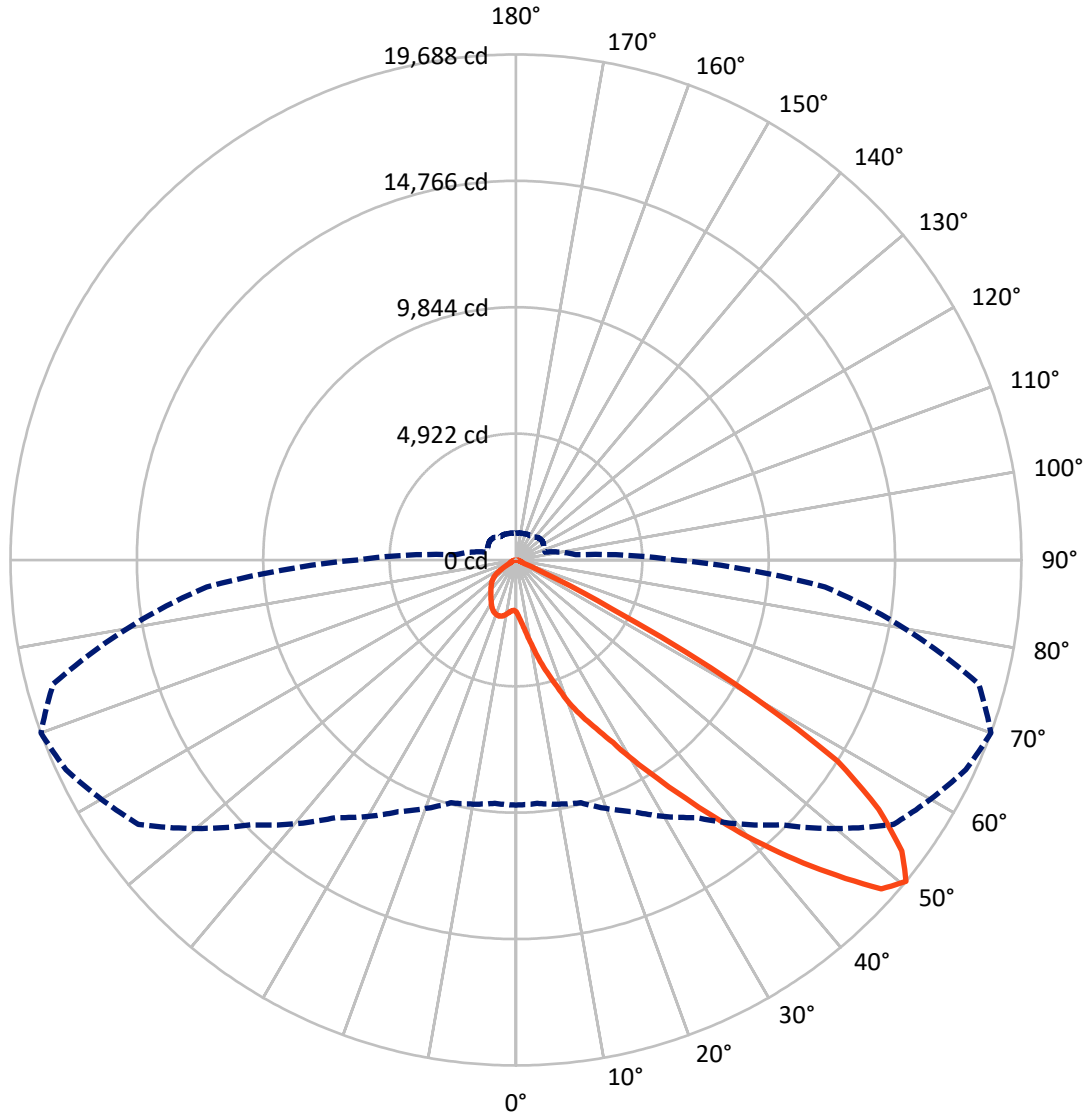
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.6 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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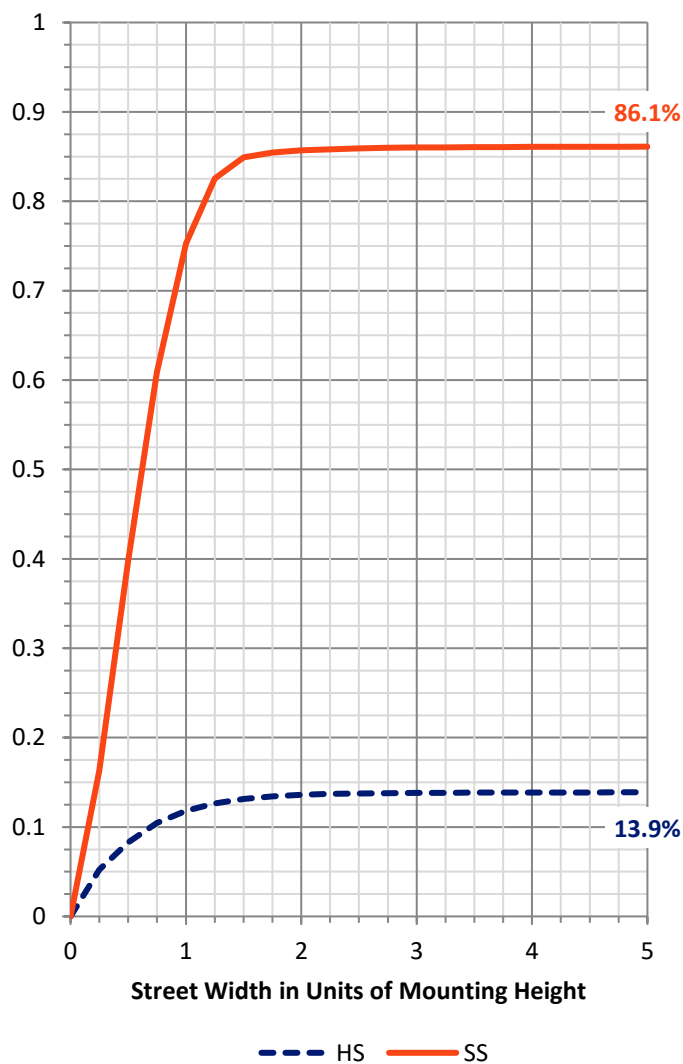
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2719.7	0.0	2719.7
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	16754.3	0.0	16754.3
	% Fixture	86.0	0.0	86.0
Total	Lumens	19474.0	0.0	19474.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	262.3	1.3
10°-20°	1134.6	5.8
20°-30°	2380.2	12.2
30°-40°	4102.7	21.1
40°-50°	5996.1	30.8
50°-60°	4670.0	24.0
60°-70°	791.2	4.1
70°-80°	108.7	0.6
80°-90°	28.1	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°	19474.0	100.0
0°-180°	19474.0	100.0

Coefficient of Utilization



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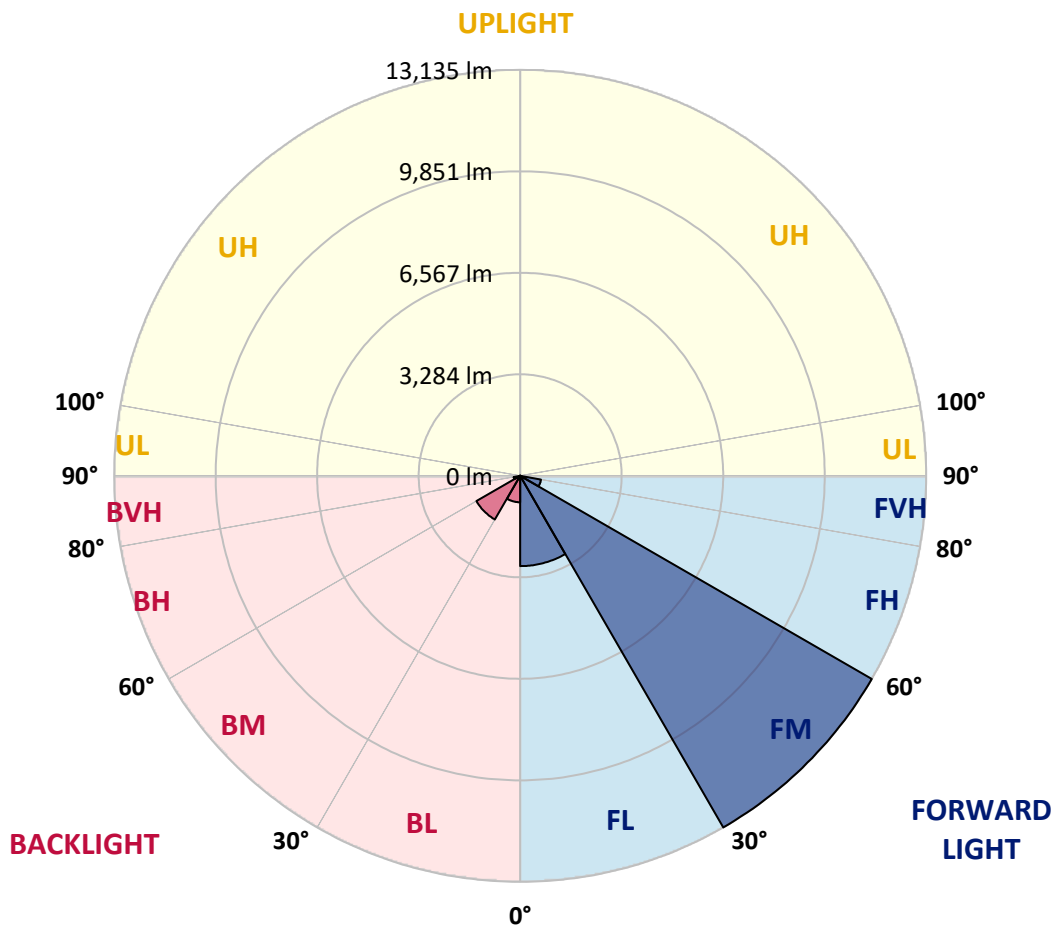
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2921.3	15.0			
FM (30°-60°)	13134.9	67.4			
FH (60°-80°)	685.1	3.5			G1/1800
FVH (80°-90°)	13.0	0.1			G1/100
BL (0°-30°)	855.8	4.4	B2/1000		
BM (30°-60°)	1633.9	8.4	B2/2500		
BH (60°-80°)	214.8	1.1	B1/500		G1/500
BVH (80°-90°)	15.1	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°	2017.1	2017.1	2017.1	2017.1	2017.1	2017.1	2017.1	2017.1	2017.1	2017.1	2017.1
2.5°	2641.5	2622.3	2580.6	2503.8	2471.8	2394.9	2350.1	2263.7	2209.2	2148.4	2081.2
5°	3720.5	3621.2	3560.4	3473.9	3221.0	3064.1	2804.8	2583.8	2481.4	2369.3	2215.6
7.5°	4834.7	4770.7	4687.4	4501.7	4328.8	4002.2	3557.2	3070.5	2862.4	2670.3	2366.1
10°	5756.8	5577.5	5567.9	5430.2	5241.3	4850.7	4316.0	3710.9	3339.5	3057.7	2580.6
12.5°	6400.4	6237.1	6310.7	6294.7	6118.6	5760.0	5142.1	4341.6	3954.2	3515.6	2801.6
15°	6986.3	6919.1	6896.6	6877.4	6807.0	6541.2	5987.3	5110.0	4549.7	4021.4	3051.3
17.5°	7559.4	7386.5	7469.8	7485.8	7479.4	7239.2	6720.5	5840.1	5180.5	4556.1	3313.8
20°	8068.5	8084.5	7972.4	7950.0	7930.8	7921.2	7415.3	6563.7	5955.3	5116.4	3656.4
22.5°	8721.7	8609.6	8708.8	8644.8	8519.9	8443.1	8055.7	7204.0	6627.7	5792.0	4005.4
25°	9493.3	9582.9	9349.2	9323.6	9185.9	8920.2	8571.2	7921.2	7274.4	6419.6	4383.2
27.5°	10444.2	10287.3	10226.5	10085.6	9835.9	9723.8	9314.0	8660.8	8055.7	7079.1	4748.2
30°	11260.7	11219.0	10914.9	10748.4	10530.7	10527.5	9954.3	9663.0	9073.9	8113.3	5250.9
32.5°	11926.6	11744.1	11632.1	11516.8	11340.7	11388.7	10905.3	10751.6	10159.3	9073.9	5843.3
35°	12371.7	12240.4	12173.2	11997.1	11945.9	12160.4	11958.7	11894.6	11408.0	10425.0	6538.0
37.5°	12512.6	12554.2	12541.4	12320.5	12429.3	13008.8	13268.2	13101.7	12845.6	11849.8	7290.5
40°	12637.4	12666.3	12602.2	12861.6	13172.1	13831.7	14769.8	14494.5	14398.4	13293.8	8337.4
42.5°	12707.9	12685.5	12685.5	13133.7	13604.4	14929.9	16220.2	16037.7	15964.1	14830.7	9547.7
45°	12403.7	12186.0	12419.7	13028.1	13975.8	15471.0	17379.3	17632.2	17526.6	16658.9	10962.9
47.5°	11267.1	11401.5	11532.8	12346.1	13524.3	15304.5	18090.1	18951.4	19146.7	18195.7	11891.4
50°	9547.7	9518.9	9791.1	10815.6	12246.8	14587.3	17952.4	19332.4	19687.8	18656.8	12086.7
52.5°	6944.7	7156.0	7450.5	8468.7	10165.7	12730.3	16175.4	18349.4	18823.3	18090.1	11958.7
55°	4043.9	3810.1	4472.9	5334.2	6935.1	9602.1	13674.8	16265.1	17142.3	17059.1	11311.9
57.5°	1620.1	1568.9	1796.2	2420.5	3618.0	5952.1	9944.7	13364.2	14769.8	15624.7	9941.5
60°	710.8	694.8	816.5	986.1	1479.2	2743.9	5439.8	8311.8	9778.2	10918.1	6842.2
62.5°	512.3	505.9	566.7	627.5	781.2	1194.3	2286.1	3349.1	4175.1	5042.8	3064.1
65°	413.0	429.0	470.7	502.7	576.3	662.8	806.8	931.7	1143.0	1184.7	675.6
67.5°	336.2	349.0	387.4	422.6	435.4	358.6	371.4	326.6	326.6	291.4	233.7
70°	246.5	249.7	294.6	336.2	268.9	144.1	252.9	252.9	227.3	217.7	198.5
72.5°	182.5	185.7	220.9	208.1	105.7	89.6	185.7	204.9	185.7	176.1	160.1
75°	134.5	137.7	115.3	48.0	44.8	57.6	108.9	140.9	134.5	131.3	121.7
77.5°	25.6	19.2	16.0	22.4	32.0	48.0	70.4	86.4	89.6	96.1	89.6
80°	3.2	3.2	9.6	19.2	35.2	51.2	73.6	83.2	86.4	89.6	83.2
82.5°	0.0	3.2	9.6	19.2	35.2	48.0	64.0	73.6	80.0	83.2	80.0
85°	0.0	3.2	6.4	16.0	28.8	35.2	32.0	22.4	19.2	22.4	16.0
87.5°	0.0	0.0	3.2	3.2	6.4	6.4	6.4	6.4	6.4	6.4	6.4
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°	2017.1	2017.1	2017.1	2017.1	2017.1	2017.1	2017.1	2017.1	2017.1	2017.1	2017.1
2.5°	2042.7	2029.9	1985.1	1937.1	1895.5	1914.7	1895.5	1879.4	1885.8	1879.4	1873.0
5°	2154.8	2097.2	2001.1	1959.5	1924.3	1921.1	1911.5	1908.3	1911.5	1911.5	1882.6
7.5°	2260.5	2167.6	2065.1	2020.3	1978.7	1981.9	1959.5	1959.5	1956.3	1940.3	1933.9
10°	2420.5	2295.7	2164.4	2084.4	2033.1	2023.5	2001.1	1978.7	1978.7	1978.7	1946.7
12.5°	2596.6	2439.8	2260.5	2167.6	2106.8	2058.7	2023.5	2017.1	1981.9	1975.5	1959.5
15°	2750.3	2551.8	2324.5	2196.4	2119.6	2055.5	2001.1	1965.9	1949.9	1940.3	1927.5
17.5°	2900.8	2647.9	2359.7	2196.4	2113.2	2039.5	1981.9	1949.9	1911.5	1917.9	1892.3
20°	3102.5	2750.3	2369.3	2154.8	2052.3	1981.9	1905.1	1889.1	1866.6	1847.4	1853.8
22.5°	3297.8	2824.0	2340.5	2103.6	1956.3	1873.0	1834.6	1815.4	1805.8	1789.8	1767.4
25°	3473.9	2904.0	2295.7	2010.7	1853.8	1793.0	1757.8	1754.6	1732.2	1732.2	1690.5
27.5°	3653.2	2932.8	2218.8	1901.9	1764.2	1729.0	1713.0	1706.6	1696.9	1674.5	1645.7
30°	3858.1	2942.4	2106.8	1789.8	1684.1	1645.7	1668.1	1684.1	1642.5	1600.9	1613.7
32.5°	4027.8	2920.0	1972.3	1684.1	1626.5	1607.3	1652.1	1668.1	1620.1	1575.3	1552.9
35°	4232.8	2865.6	1841.0	1600.9	1568.9	1607.3	1645.7	1645.7	1549.7	1495.2	1482.4
37.5°	4543.3	2804.8	1719.4	1530.5	1508.0	1588.1	1639.3	1604.1	1453.6	1386.4	1370.4
40°	4876.3	2766.3	1600.9	1460.0	1476.0	1556.1	1584.9	1476.0	1322.3	1280.7	1267.9
42.5°	5359.8	2689.5	1495.2	1399.2	1447.2	1511.2	1511.2	1315.9	1258.3	1235.9	1232.7
45°	5961.7	2635.1	1402.4	1348.0	1405.6	1421.6	1370.4	1232.7	1191.1	1184.7	1187.9
47.5°	6256.3	2529.4	1306.3	1287.1	1328.7	1331.9	1197.5	1165.4	1130.2	1120.6	1114.2
50°	6211.5	2340.5	1181.5	1207.1	1264.7	1232.7	1091.8	1098.2	1066.2	1063.0	1047.0
52.5°	5897.7	2042.7	1056.6	1117.4	1181.5	1088.6	1005.4	999.0	999.0	957.3	941.3
55°	5228.5	1645.7	906.1	982.9	1059.8	915.7	893.3	886.9	870.9	832.5	822.9
57.5°	4139.9	1207.1	682.0	765.2	899.7	778.0	774.8	746.0	704.4	675.6	675.6
60°	2462.2	694.8	429.0	467.5	595.5	630.8	701.2	688.4	617.9	573.1	560.3
62.5°	1123.8	358.6	272.2	278.6	320.2	409.8	550.7	637.2	537.9	461.1	454.7
65°	377.8	265.7	224.1	214.5	220.9	246.5	329.8	451.5	429.0	355.4	342.6
67.5°	230.5	236.9	211.3	195.3	195.3	192.1	188.9	204.9	252.9	246.5	249.7
70°	198.5	217.7	195.3	176.1	169.7	160.1	134.5	112.1	96.1	112.1	118.5
72.5°	160.1	172.9	166.5	150.5	134.5	121.7	96.1	73.6	54.4	48.0	48.0
75°	118.5	128.1	134.5	115.3	102.5	86.4	70.4	48.0	28.8	19.2	19.2
77.5°	86.4	96.1	99.3	89.6	76.8	60.8	44.8	32.0	16.0	6.4	6.4
80°	73.6	86.4	96.1	89.6	80.0	57.6	41.6	22.4	12.8	3.2	3.2
82.5°	70.4	86.4	96.1	86.4	76.8	54.4	41.6	25.6	9.6	3.2	3.2
85°	16.0	22.4	28.8	35.2	41.6	41.6	32.0	19.2	9.6	3.2	3.2
87.5°	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	3.2	3.2	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)