

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: P527464

Luminaire Tested: **GALN-SA2C-727-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527464
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2C-727-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10081 lumens
Efficiency: N/A
Efficacy: 93.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

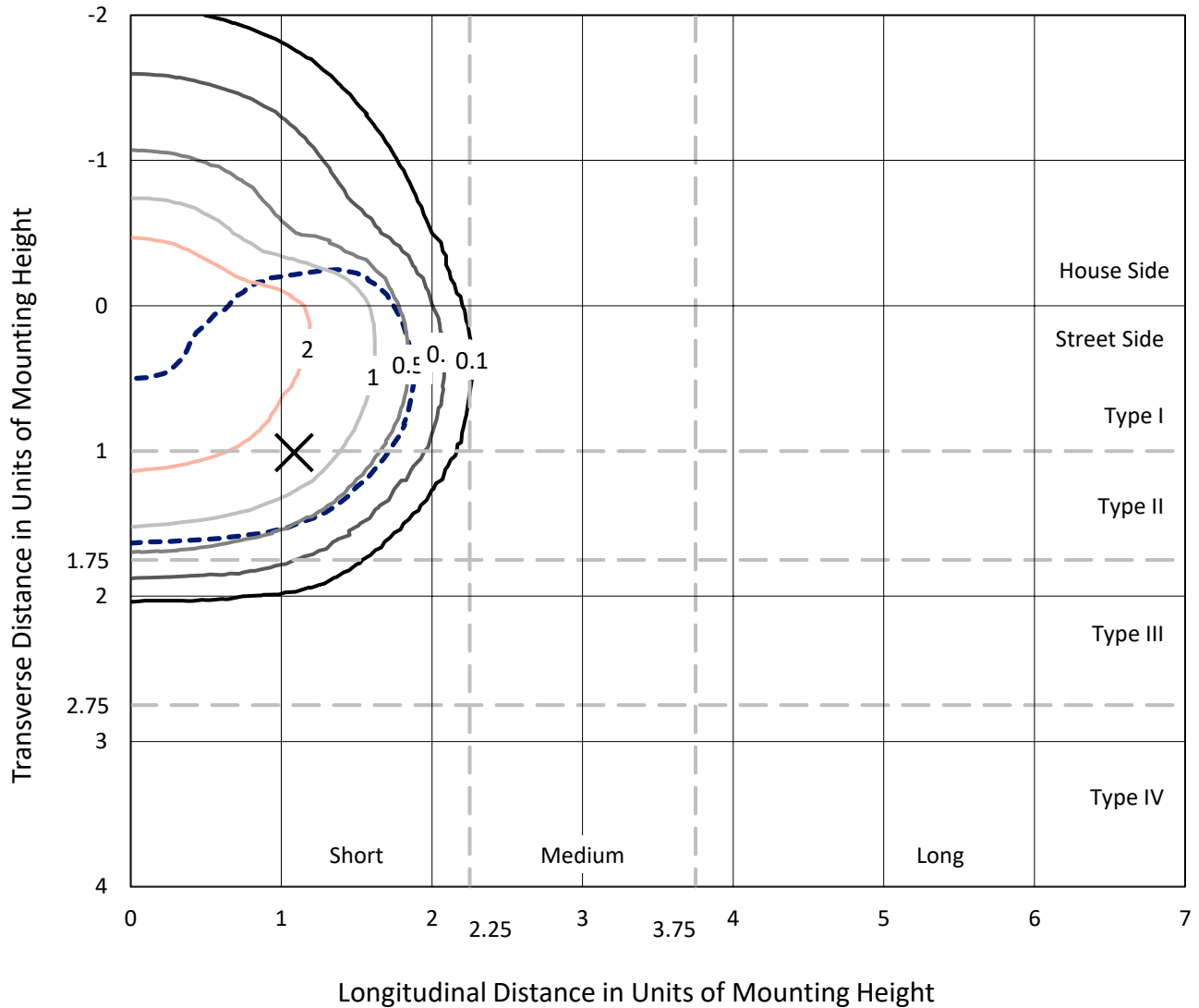
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

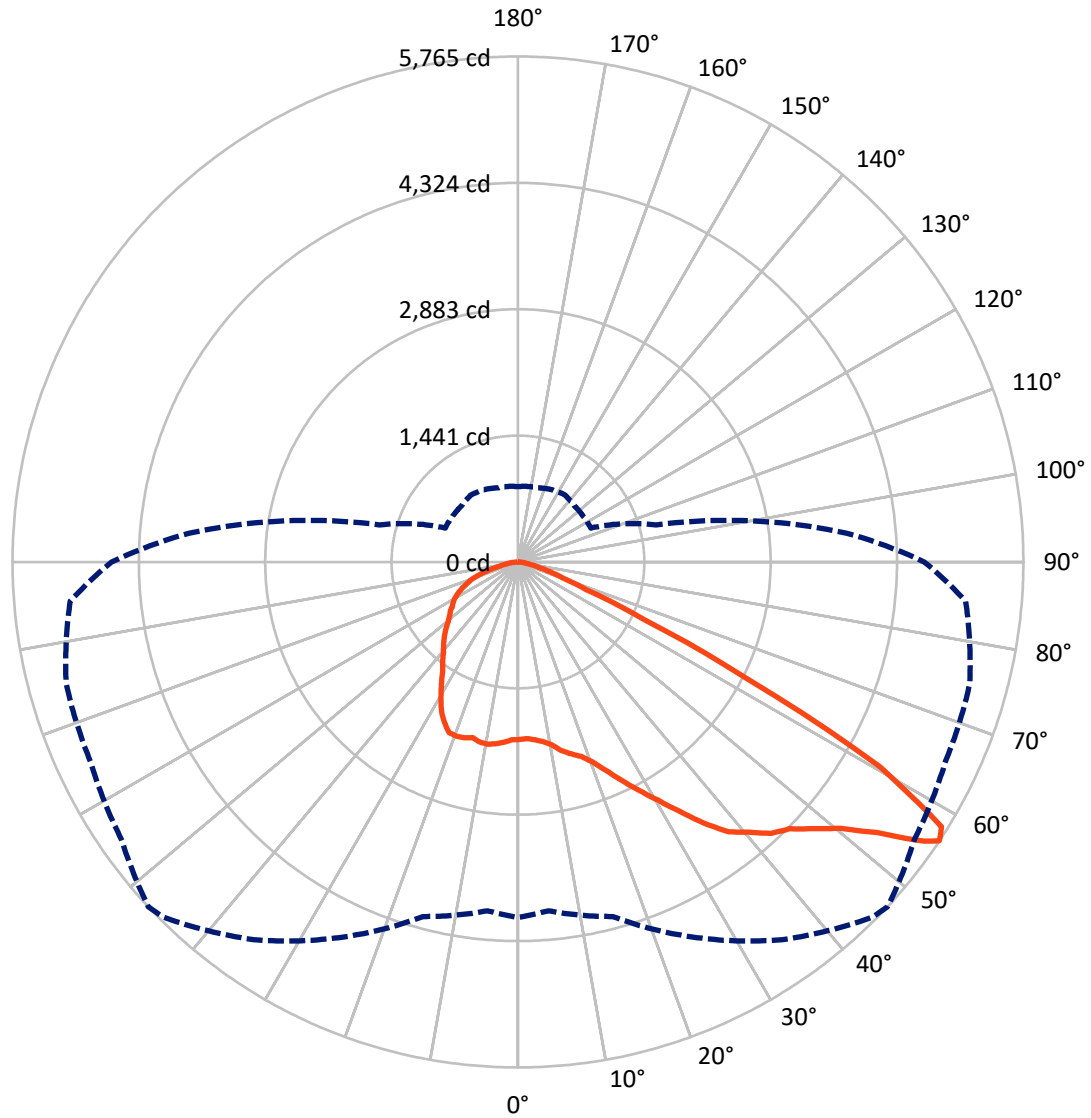
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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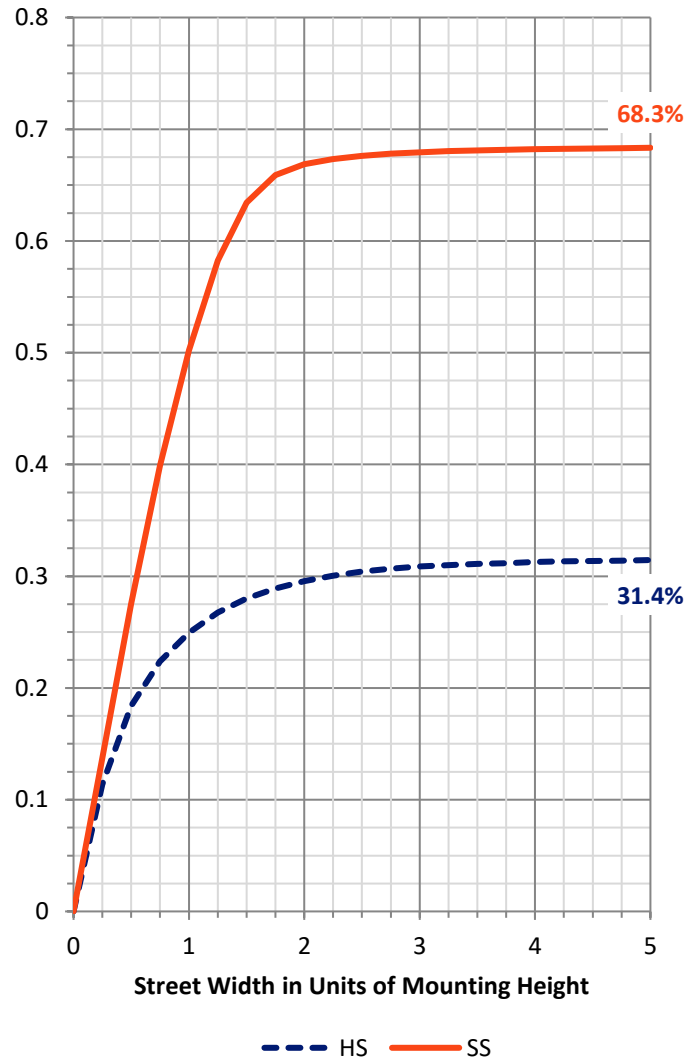
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3194.5	0.0	3194.5
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	6886.4	0.0	6886.4
	% Fixture	68.3	0.0	68.3
Total	Lumens	10081.0	0.0	10081.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.3	2.0
10°-20°	622.4	6.2
20°-30°	1100.3	10.9
30°-40°	1652.5	16.4
40°-50°	2268.0	22.5
50°-60°	2702.0	26.8
60°-70°	1156.3	11.5
70°-80°	327.2	3.2
80°-90°	55.1	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°	10081.0	100.0
0°-180°	10081.0	100.0



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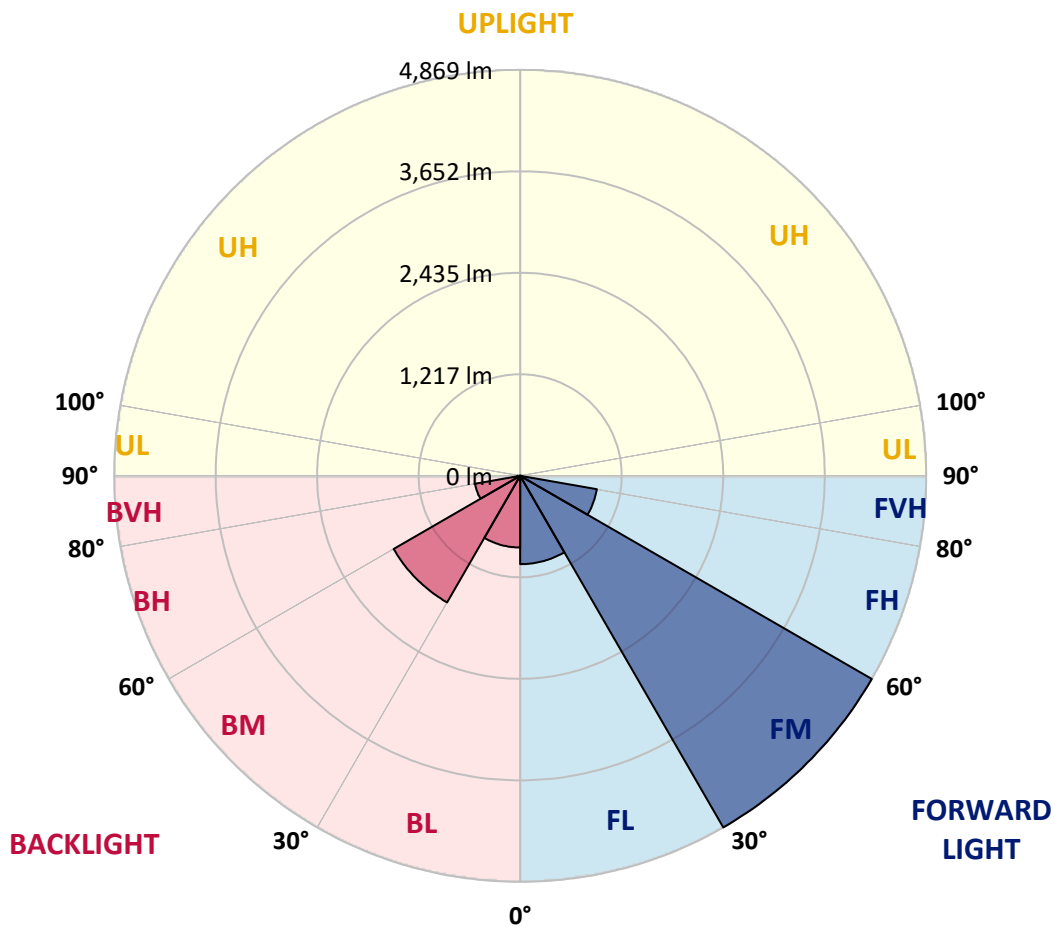
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1059.9	10.5			
FM (30°-60°)	4869.4	48.3			
FH (60°-80°)	933.9	9.3			G1/1800
FVH (80°-90°)	23.4	0.2			G1/100
BL (0°-30°)	860.1	8.5	B2/1000		
BM (30°-60°)	1753.1	17.4	B2/2500		
BH (60°-80°)	549.6	5.5	B2/1000		G2/1000
BVH (80°-90°)	31.7	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	2025.0	2025.0	2025.0	2025.0	2025.0	2025.0	2025.0	2025.0	2025.0	2025.0	2025.0
2.5°	2017.3	2013.4	2010.8	2031.4	2023.7	2025.0	2017.3	2025.0	2030.1	2018.5	2035.3
5°	2013.4	2025.0	2014.7	2021.1	2037.8	2032.7	2037.8	2053.3	2049.4	2045.5	2040.4
7.5°	2049.4	2050.7	2058.4	2061.0	2066.1	2061.0	2068.7	2082.8	2079.0	2057.1	2059.7
10°	2100.8	2103.4	2104.7	2118.8	2127.8	2129.1	2120.1	2107.3	2106.0	2135.5	2115.0
12.5°	2160.0	2153.5	2169.0	2174.1	2184.4	2196.0	2207.5	2180.5	2197.2	2198.5	2174.1
15°	2246.1	2252.5	2234.5	2234.5	2238.4	2239.7	2271.8	2259.0	2256.4	2242.2	2252.5
17.5°	2374.7	2331.0	2329.7	2311.7	2309.1	2319.4	2331.0	2341.2	2376.0	2347.7	2292.4
20°	2468.5	2478.8	2441.5	2419.7	2423.5	2446.7	2435.1	2481.4	2505.8	2459.5	2405.5
22.5°	2634.4	2599.7	2608.7	2559.8	2563.7	2588.1	2586.8	2634.4	2648.5	2575.2	2496.8
25°	2746.2	2737.2	2745.0	2706.4	2711.5	2730.8	2761.7	2840.1	2817.0	2736.0	2554.7
27.5°	2909.5	2891.5	2885.1	2871.0	2865.8	2917.2	2953.2	3036.8	3020.1	2901.8	2657.5
30°	3076.7	3065.1	3071.5	3013.7	3034.2	3143.5	3153.8	3268.2	3260.5	3052.2	2772.0
32.5°	3192.4	3198.8	3210.4	3178.2	3269.5	3356.9	3391.7	3521.5	3527.9	3310.7	2993.1
35°	3378.8	3356.9	3363.4	3400.7	3443.1	3602.5	3659.1	3745.2	3799.2	3581.9	3205.2
37.5°	3495.8	3518.9	3491.9	3551.1	3661.7	3853.2	3904.6	3993.4	4049.9	3849.4	3494.5
40°	3678.4	3641.1	3660.4	3702.8	3815.9	4065.4	4051.2	4142.5	4160.5	4076.9	3764.5
42.5°	3875.1	3857.1	3830.1	3926.5	4021.6	4202.9	4231.2	4188.8	4280.1	4299.4	4150.2
45°	4110.4	4132.2	4136.1	4138.6	4222.2	4380.4	4341.8	4304.5	4409.9	4550.1	4389.4
47.5°	4328.9	4259.5	4309.6	4379.1	4497.4	4498.6	4543.6	4454.9	4566.8	4691.5	4605.4
50°	4402.2	4368.8	4435.6	4566.8	4749.4	4768.6	4773.8	4647.8	4705.6	4804.6	4679.9
52.5°	4373.9	4362.4	4533.4	4736.5	5003.9	5101.6	5127.3	4971.8	5003.9	4958.9	4844.5
55°	4238.9	4273.6	4445.9	4859.9	5270.1	5572.2	5621.1	5424.3	5219.9	5254.6	5128.6
56°	4053.8	3993.4	4186.2	4719.8	5258.5	5725.2	5765.0	5519.5	5380.6	5335.6	5126.1
57.5°	3439.2	3360.8	3614.1	4246.6	4966.6	5667.3	5696.9	5559.3	5353.6	5262.3	4751.9
60°	2013.4	2052.0	2373.4	2928.8	3831.4	4646.5	4745.5	4845.8	4708.2	4299.4	3536.9
62.5°	972.0	947.6	1177.7	1679.1	2334.8	2966.1	2936.5	3218.1	3372.4	3054.8	2233.2
65°	509.1	506.6	642.8	916.7	1283.1	1558.3	1585.3	1737.0	1949.1	1573.7	1134.0
67.5°	374.1	384.4	452.6	644.1	825.4	842.1	838.3	914.1	934.7	790.7	696.8
70°	293.1	298.3	348.4	489.8	614.6	550.3	538.7	547.7	608.1	633.8	603.0
72.5°	212.1	217.3	259.7	330.4	384.4	375.4	383.1	433.3	507.8	534.8	502.7
75°	141.4	145.3	168.4	201.9	227.6	245.6	259.7	317.6	387.0	402.4	387.0
77.5°	97.7	101.6	117.0	142.7	145.3	156.9	162.0	189.0	231.4	250.7	240.4
80°	55.3	55.3	63.0	73.3	90.0	105.4	108.0	129.9	149.1	162.0	164.6
82.5°	25.7	27.0	33.4	45.0	59.1	73.3	75.9	90.0	104.1	117.0	120.9
85°	12.9	14.1	19.3	27.0	36.0	43.7	42.4	43.7	46.3	43.7	45.0
87.5°	3.9	3.9	5.1	6.4	5.1	6.4	6.4	7.7	9.0	10.3	11.6
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°	2025.0	2025.0	2025.0	2025.0	2025.0	2025.0	2025.0	2025.0	2025.0	2025.0	2025.0
2.5°	2036.5	2040.4	2014.7	2039.1	2030.1	2028.8	2046.8	2044.3	2050.7	2048.1	2032.7
5°	2037.8	2028.8	2055.8	2031.4	2043.0	2067.4	2050.7	2089.3	2070.0	2082.8	2054.5
7.5°	2077.7	2080.3	2075.1	2085.4	2080.3	2091.8	2082.8	2091.8	2076.4	2077.7	2103.4
10°	2112.4	2104.7	2113.7	2100.8	2109.8	2106.0	2085.4	2079.0	2084.1	2077.7	2094.4
12.5°	2176.7	2162.5	2156.1	2140.7	2130.4	2091.8	2059.7	2041.7	2066.1	2070.0	2062.3
15°	2242.2	2243.5	2214.0	2179.2	2115.0	2057.1	2064.8	2071.3	2071.3	2081.5	2062.3
17.5°	2283.4	2283.4	2256.4	2187.0	2121.4	2088.0	2080.3	2059.7	2041.7	2039.1	2037.8
20°	2355.4	2333.5	2271.8	2185.7	2118.8	2103.4	2045.5	1996.7	1959.4	1946.5	1945.3
22.5°	2437.7	2382.4	2296.2	2188.2	2115.0	2093.1	1985.1	1911.8	1845.0	1816.7	1820.5
25°	2513.5	2424.8	2310.4	2176.7	2100.8	1995.4	1874.5	1773.0	1703.5	1680.4	1668.8
27.5°	2566.2	2469.8	2310.4	2187.0	2048.1	1886.1	1762.7	1632.8	1572.4	1557.0	1559.5
30°	2637.0	2526.4	2350.2	2165.1	1942.7	1744.7	1596.8	1512.0	1476.0	1463.1	1472.1
32.5°	2802.8	2674.2	2405.5	2112.4	1818.0	1603.3	1483.7	1436.1	1383.4	1357.7	1348.7
35°	2982.8	2814.4	2459.5	2023.7	1677.8	1474.7	1400.1	1356.4	1293.4	1265.1	1270.3
37.5°	3237.4	2994.4	2463.4	1877.1	1526.1	1402.7	1334.5	1266.4	1215.0	1171.3	1158.4
40°	3580.7	3239.9	2454.4	1722.8	1404.0	1317.8	1267.7	1182.8	1125.0	1094.1	1100.6
42.5°	3882.8	3527.9	2417.1	1548.0	1293.4	1260.0	1203.4	1119.8	1063.3	1031.1	1028.6
45°	4137.4	3740.1	2346.4	1398.8	1200.8	1195.7	1130.1	1065.8	1020.8	991.3	1004.1
47.5°	4372.6	3911.1	2239.7	1249.7	1116.0	1126.3	1063.3	1023.4	995.1	968.1	966.8
50°	4457.5	3908.5	2145.8	1126.3	1047.8	1042.7	1040.1	997.7	968.1	945.0	955.3
52.5°	4598.9	3952.2	2044.3	1041.4	986.1	987.4	996.4	965.6	932.1	918.0	930.8
55°	4802.1	3958.6	1820.5	942.4	934.7	943.7	943.7	923.1	894.8	883.3	876.8
56°	4636.2	3767.1	1632.8	916.7	909.0	909.0	933.4	910.3	875.6	866.6	858.8
57.5°	4276.2	3300.4	1366.7	885.8	874.3	892.3	905.1	880.7	848.6	835.7	843.4
60°	2949.4	2233.2	1027.3	819.0	819.0	848.6	858.8	822.8	808.7	807.4	797.1
62.5°	1721.5	1301.1	803.6	758.6	761.1	785.6	793.3	772.7	754.7	776.6	786.8
65°	912.8	776.6	689.1	694.3	695.6	714.8	748.3	747.0	745.7	752.1	753.4
67.5°	660.8	645.4	626.1	621.0	623.6	637.7	671.1	696.8	695.6	680.1	668.6
70°	588.8	567.0	555.4	556.7	546.4	563.1	590.1	606.8	577.3	559.3	551.6
72.5°	489.8	483.4	475.7	477.0	456.4	452.6	421.7	421.7	414.0	408.9	417.9
75°	374.1	371.6	375.4	369.0	347.1	324.0	306.0	289.3	263.6	253.3	248.1
77.5°	236.6	244.3	253.3	239.1	230.1	213.4	195.4	178.7	158.1	146.6	146.6
80°	160.7	167.1	173.6	171.0	160.7	145.3	131.1	113.1	99.0	90.0	88.7
82.5°	122.1	127.3	136.3	126.0	115.7	102.9	91.3	78.4	65.6	55.3	55.3
85°	43.7	50.1	55.3	60.4	64.3	65.6	56.6	46.3	37.3	29.6	28.3
87.5°	11.6	12.9	14.1	12.9	12.9	12.9	14.1	12.9	11.6	9.0	9.0
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)