

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: P528944

Luminaire Tested: **GALN-SA4A-740-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528944
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4A-740-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15897 lumens
Efficiency: N/A
Efficacy: 131.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

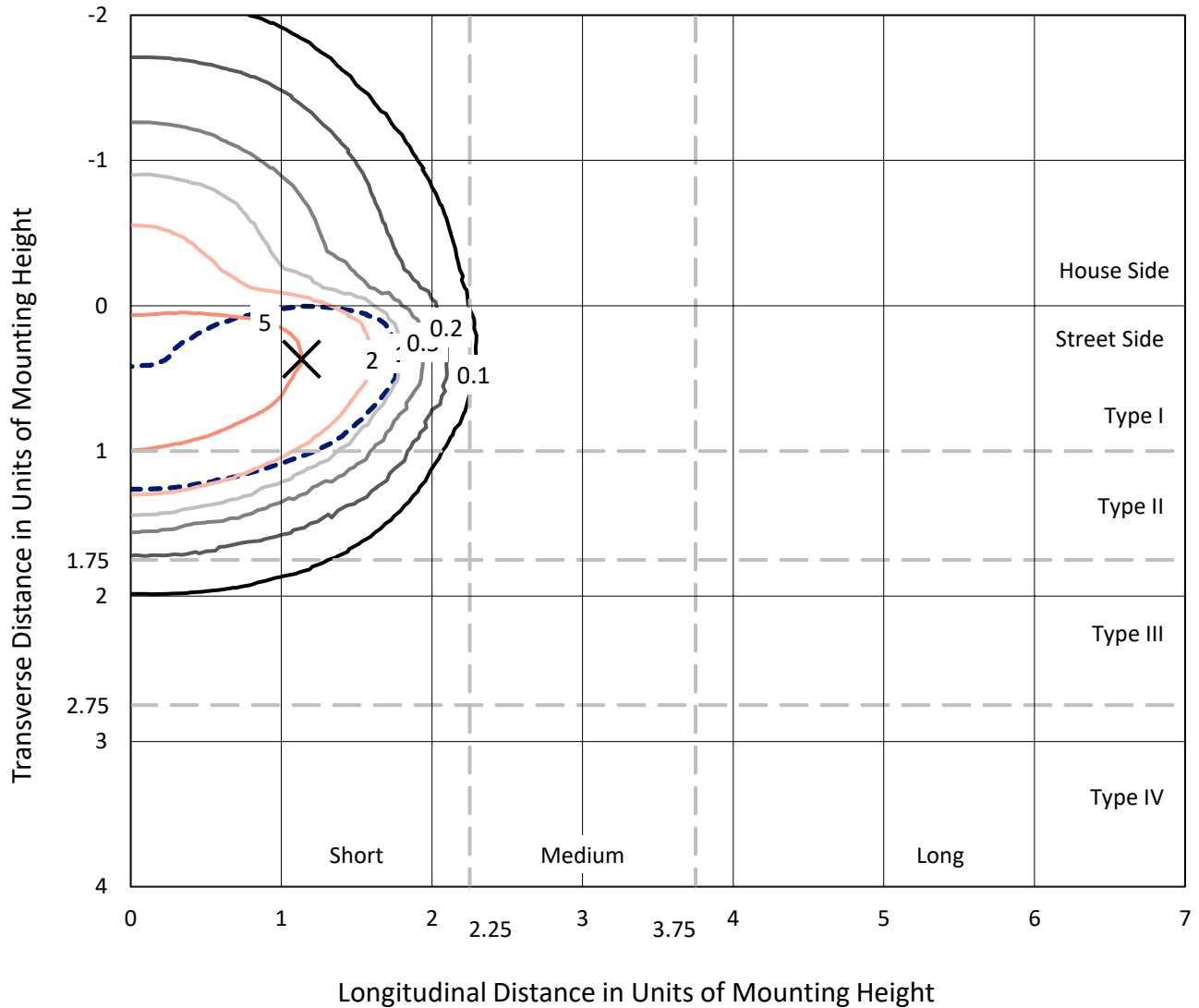
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

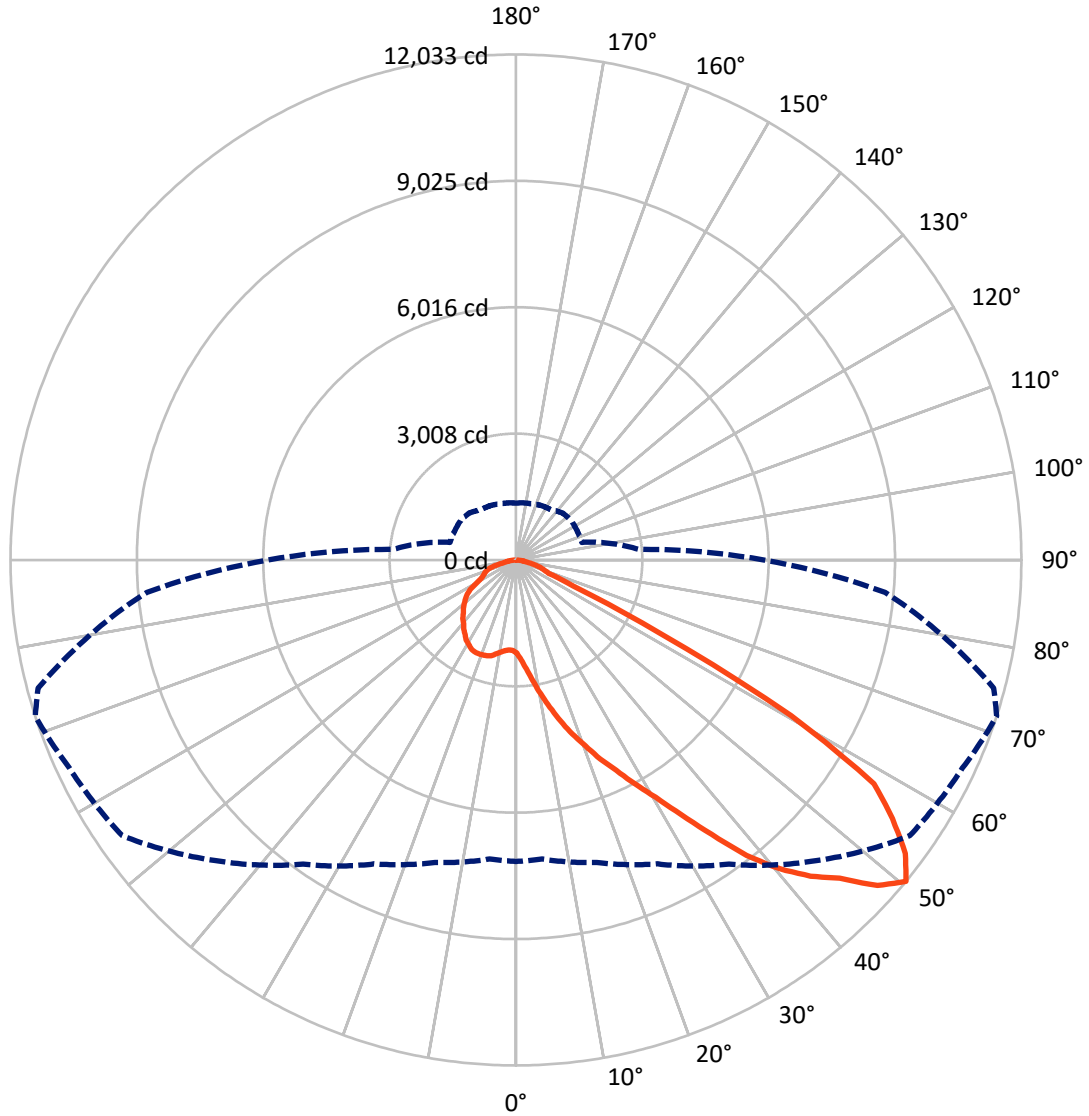
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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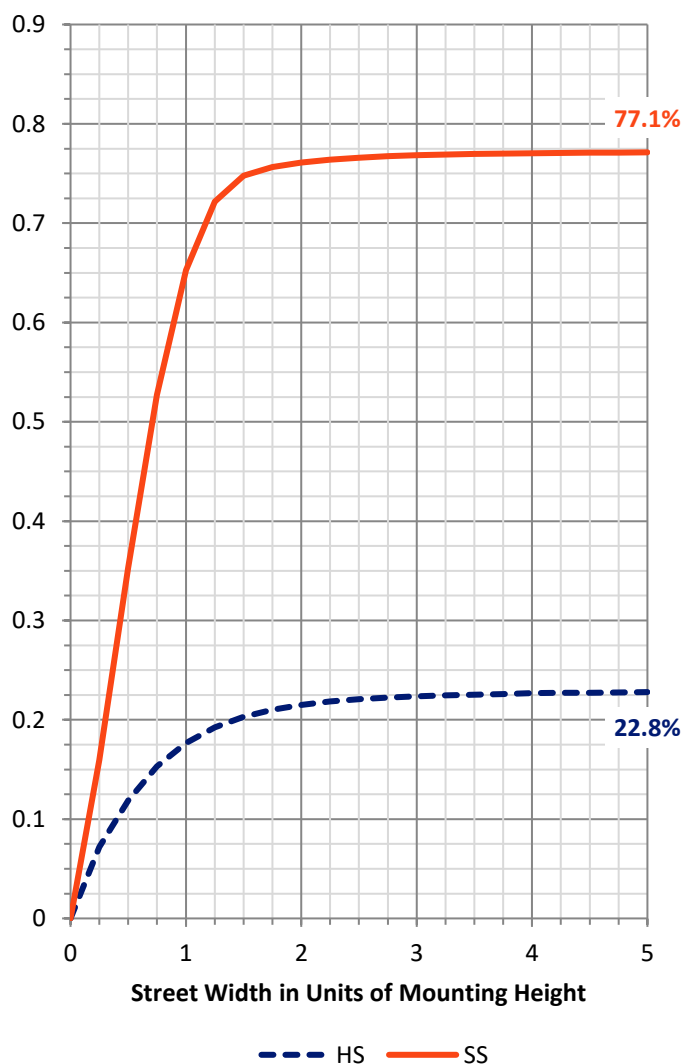
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3642.1	0.0	3642.1
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	12254.9	0.0	12254.9
	% Fixture	77.1	0.0	77.1
Total	Lumens	15897.0	0.0	15897.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	260.3	1.6
10°-20°	973.1	6.1
20°-30°	1886.8	11.9
30°-40°	3125.8	19.7
40°-50°	4373.6	27.5
50°-60°	3689.7	23.2
60°-70°	1124.6	7.1
70°-80°	394.5	2.5
80°-90°	68.6	0.4
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°	15897.0	100.0
0°-180°	15897.0	100.0

Coefficient of Utilization



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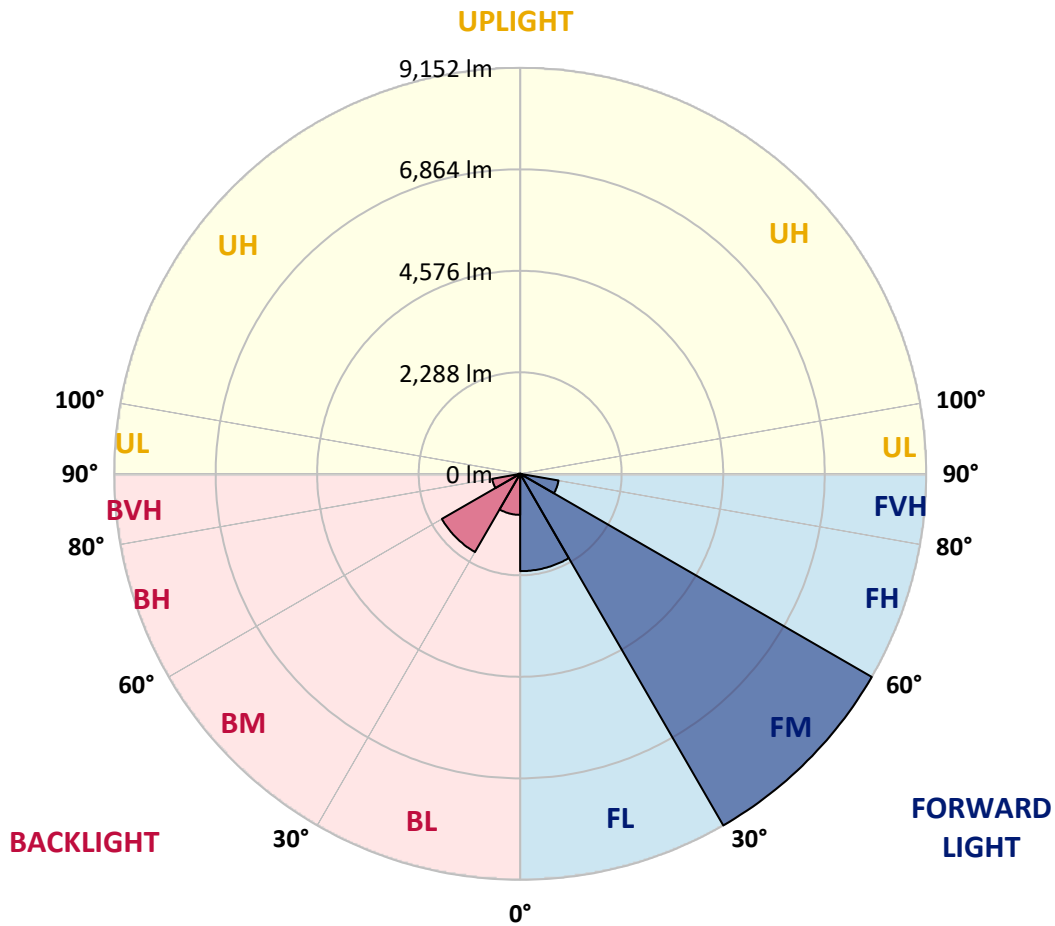
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2194.4	13.8			
FM (30°-60°)	9152.3	57.6			
FH (60°-80°)	877.5	5.5			G1/1800
FVH (80°-90°)	30.7	0.2			G1/100
BL (0°-30°)	925.8	5.8	B2/1000		
BM (30°-60°)	2036.7	12.8	B2/2500		
BH (60°-80°)	641.7	4.0	B2/1000		G2/1000
BVH (80°-90°)	37.9	0.2			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°	55°	65°	72°	75°	85°
0°	2213.0	2213.0	2213.0	2213.0	2213.0	2213.0	2213.0	2213.0	2213.0	2213.0	2213.0
2.5°	2846.4	2828.7	2775.6	2757.9	2694.9	2580.8	2541.5	2425.4	2376.3	2331.0	2277.9
5°	3599.8	3517.2	3511.3	3411.0	3265.4	3180.8	2929.0	2759.9	2604.5	2525.8	2380.2
7.5°	4079.8	4081.8	4081.8	3999.1	3883.1	3668.7	3442.4	3137.5	2903.5	2787.4	2539.5
10°	4536.2	4496.8	4475.2	4467.3	4388.6	4180.1	3938.2	3560.5	3239.8	3104.1	2659.5
12.5°	4858.8	4825.3	4874.5	4848.9	4791.9	4656.1	4428.0	3997.2	3595.9	3412.9	2852.3
15°	5012.2	5035.8	5075.1	5146.0	5120.4	5069.2	4817.5	4445.7	3979.5	3772.9	3023.4
17.5°	5248.2	5183.3	5230.5	5319.1	5389.9	5366.3	5222.7	4770.2	4359.1	4105.4	3253.6
20°	5413.5	5376.1	5399.7	5502.0	5555.1	5688.9	5614.1	5195.1	4723.0	4455.5	3525.1
22.5°	5885.6	5830.5	5753.8	5769.5	5789.2	5883.6	5901.3	5661.3	5146.0	4862.7	3782.8
25°	6467.9	6416.7	6326.2	6233.8	6176.7	6159.0	6220.0	6027.2	5551.2	5258.1	4060.1
27.5°	7109.1	7022.6	6965.5	6774.7	6621.3	6597.7	6568.2	6463.9	6031.2	5714.5	4372.9
30°	7732.7	7663.9	7587.1	7282.2	7122.9	7097.3	6951.8	6981.3	6552.4	6200.3	4727.0
32.5°	8204.8	8210.7	8035.6	7805.5	7656.0	7520.3	7467.1	7551.7	7221.3	6938.0	5122.4
35°	8586.4	8604.1	8436.9	8228.4	8067.1	8161.5	8137.9	8177.3	8019.9	7673.7	5582.7
37.5°	8958.2	8869.7	8690.7	8590.4	8505.8	8661.2	8861.8	8895.3	8924.8	8517.6	6117.7
40°	9019.2	9027.1	8922.8	8993.6	8887.4	9121.5	9587.7	9544.4	9664.4	9308.4	6698.0
42.5°	8932.6	8950.3	8991.7	9092.0	9347.7	9629.0	10321.4	10144.4	10289.9	9973.2	7262.6
45°	8791.0	8718.2	8769.4	9151.0	9593.6	10219.1	10992.2	10854.5	10807.3	10541.7	7935.3
47.5°	8114.3	8189.1	8348.4	8818.6	9483.4	10321.4	11468.2	11436.8	11578.4	11391.5	8547.1
50°	7176.0	7146.5	7453.4	7982.5	8840.2	10120.8	11442.7	11727.9	12032.8	11773.1	8820.5
52.5°	5374.1	5531.5	5795.1	6452.1	7675.7	9027.1	10884.0	11360.1	11607.9	11552.8	8600.2
55°	3397.2	3444.4	3603.7	4384.7	5486.3	7244.9	9330.0	10433.5	10876.1	11082.7	8397.6
57.5°	1650.4	1561.9	1756.6	2384.1	3169.0	4872.5	7195.7	9088.0	10050.0	10423.7	7957.0
60°	861.6	895.0	971.8	1196.0	1638.6	2529.7	4485.0	6056.7	7526.2	8100.6	6031.2
62.5°	714.1	725.9	777.0	889.1	1089.8	1455.7	2289.7	2952.6	3837.8	4355.2	3430.6
65°	605.9	611.8	666.9	741.6	869.5	1024.9	1178.3	1233.4	1493.0	1532.4	1219.6
67.5°	505.5	511.4	570.5	641.3	723.9	765.2	804.5	800.6	830.1	818.3	816.4
70°	389.5	395.4	456.4	531.1	572.4	548.8	670.8	698.3	710.1	720.0	735.7
72.5°	281.3	293.1	340.3	393.4	371.8	426.9	552.8	594.1	609.8	615.7	635.4
75°	204.6	208.5	220.3	204.6	236.1	297.0	389.5	440.6	460.3	466.2	495.7
77.5°	90.5	92.5	94.4	118.0	151.5	184.9	232.1	273.4	301.0	308.8	316.7
80°	47.2	49.2	61.0	80.7	108.2	135.7	169.2	192.8	210.5	212.4	220.3
82.5°	29.5	31.5	43.3	57.0	76.7	100.3	123.9	143.6	157.4	159.3	161.3
85°	13.8	17.7	25.6	35.4	51.1	64.9	66.9	57.0	61.0	62.9	59.0
87.5°	3.9	5.9	7.9	5.9	7.9	7.9	9.8	11.8	11.8	11.8	13.8
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°	2213.0	2213.0	2213.0	2213.0	2213.0	2213.0	2213.0	2213.0	2213.0	2213.0	2213.0
2.5°	2248.4	2230.7	2161.9	2136.3	2069.4	2081.2	2045.8	2043.8	2036.0	2034.0	2032.0
5°	2303.5	2248.4	2165.8	2102.8	2065.5	2061.5	2036.0	2036.0	2043.8	2049.7	2036.0
7.5°	2394.0	2331.0	2191.4	2132.3	2098.9	2093.0	2075.3	2061.5	2079.2	2073.3	2057.6
10°	2498.2	2388.1	2240.5	2189.4	2134.3	2120.5	2120.5	2126.4	2096.9	2106.8	2091.0
12.5°	2614.3	2466.8	2303.5	2244.5	2179.6	2171.7	2167.8	2124.5	2140.2	2132.3	2093.0
15°	2761.8	2557.2	2384.1	2283.8	2228.7	2193.3	2142.2	2134.3	2124.5	2104.8	2087.1
17.5°	2921.2	2655.6	2421.5	2295.6	2213.0	2187.4	2148.1	2106.8	2077.3	2081.2	2067.4
20°	3056.9	2746.1	2435.3	2307.4	2201.2	2152.0	2091.0	2065.5	2034.0	2032.0	2030.1
22.5°	3218.2	2868.0	2455.0	2275.9	2165.8	2114.6	2073.3	2028.1	2006.5	1978.9	1992.7
25°	3411.0	2915.3	2458.9	2258.2	2140.2	2049.7	2028.1	1978.9	1971.0	1931.7	1939.6
27.5°	3550.6	2940.8	2427.4	2203.2	2081.2	2012.4	1973.0	1937.6	1923.8	1894.3	1886.5
30°	3737.5	2980.2	2360.5	2134.3	2022.2	1945.5	1921.9	1914.0	1874.7	1843.2	1839.2
32.5°	3950.0	3005.7	2317.3	2063.5	1961.2	1902.2	1914.0	1876.6	1827.4	1799.9	1792.0
35°	4119.1	3015.6	2209.1	1982.8	1919.9	1882.5	1868.8	1860.9	1790.1	1764.5	1744.8
37.5°	4376.8	2993.9	2118.6	1925.8	1874.7	1860.9	1849.1	1796.0	1715.3	1677.9	1650.4
40°	4677.8	2988.0	2002.5	1845.1	1831.4	1847.1	1811.7	1729.1	1617.0	1575.7	1556.0
42.5°	4967.0	3029.3	1929.7	1801.9	1784.2	1790.1	1740.9	1617.0	1561.9	1538.3	1506.8
45°	5450.9	3115.9	1809.7	1735.0	1727.1	1723.2	1664.2	1534.3	1502.9	1473.4	1467.5
47.5°	5887.6	3058.9	1733.0	1666.1	1674.0	1652.4	1526.5	1485.2	1449.8	1420.3	1410.4
50°	5913.1	2923.1	1624.8	1613.0	1615.0	1577.6	1457.6	1430.1	1384.8	1365.2	1351.4
52.5°	5779.4	2700.8	1524.5	1528.4	1534.3	1473.4	1373.0	1353.4	1316.0	1288.5	1280.6
55°	5403.6	2354.6	1426.2	1441.9	1457.6	1341.6	1310.1	1260.9	1231.4	1192.1	1194.0
57.5°	4760.4	1896.3	1288.5	1314.0	1347.5	1219.6	1196.0	1135.0	1091.7	1060.3	1056.3
60°	3190.7	1349.4	1081.9	1091.7	1166.5	1115.4	1113.4	1052.4	993.4	965.9	950.1
62.5°	1882.5	1030.8	934.4	924.5	922.6	952.1	1001.3	979.6	902.9	849.8	865.5
65°	985.5	891.1	869.5	836.0	816.4	808.5	845.9	855.7	804.5	747.5	743.6
67.5°	828.2	828.2	810.4	798.6	771.1	737.7	714.1	682.6	674.7	659.0	639.3
70°	753.4	773.1	767.2	739.6	716.0	678.7	617.7	566.5	517.3	499.6	511.4
72.5°	657.0	676.7	676.7	662.9	631.4	574.4	515.4	456.4	415.1	383.6	379.7
75°	505.5	515.4	539.0	523.3	481.9	446.5	385.6	324.6	285.2	255.7	249.8
77.5°	322.6	338.3	338.3	336.4	306.9	273.4	234.1	190.8	161.3	139.7	133.8
80°	214.4	224.3	232.1	224.3	204.6	179.0	149.5	120.0	98.4	80.7	76.7
82.5°	157.4	169.2	175.1	167.2	147.5	127.9	106.2	84.6	62.9	49.2	45.2
85°	61.0	62.9	70.8	84.6	82.6	80.7	64.9	47.2	35.4	25.6	23.6
87.5°	15.7	13.8	15.7	15.7	13.8	11.8	11.8	11.8	11.8	5.9	7.9
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)