

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: P529534

Luminaire Tested: **GALN-SA4D-722-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529534
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4D-722-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2200K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19032 lumens
Efficiency: N/A
Efficacy: 77.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

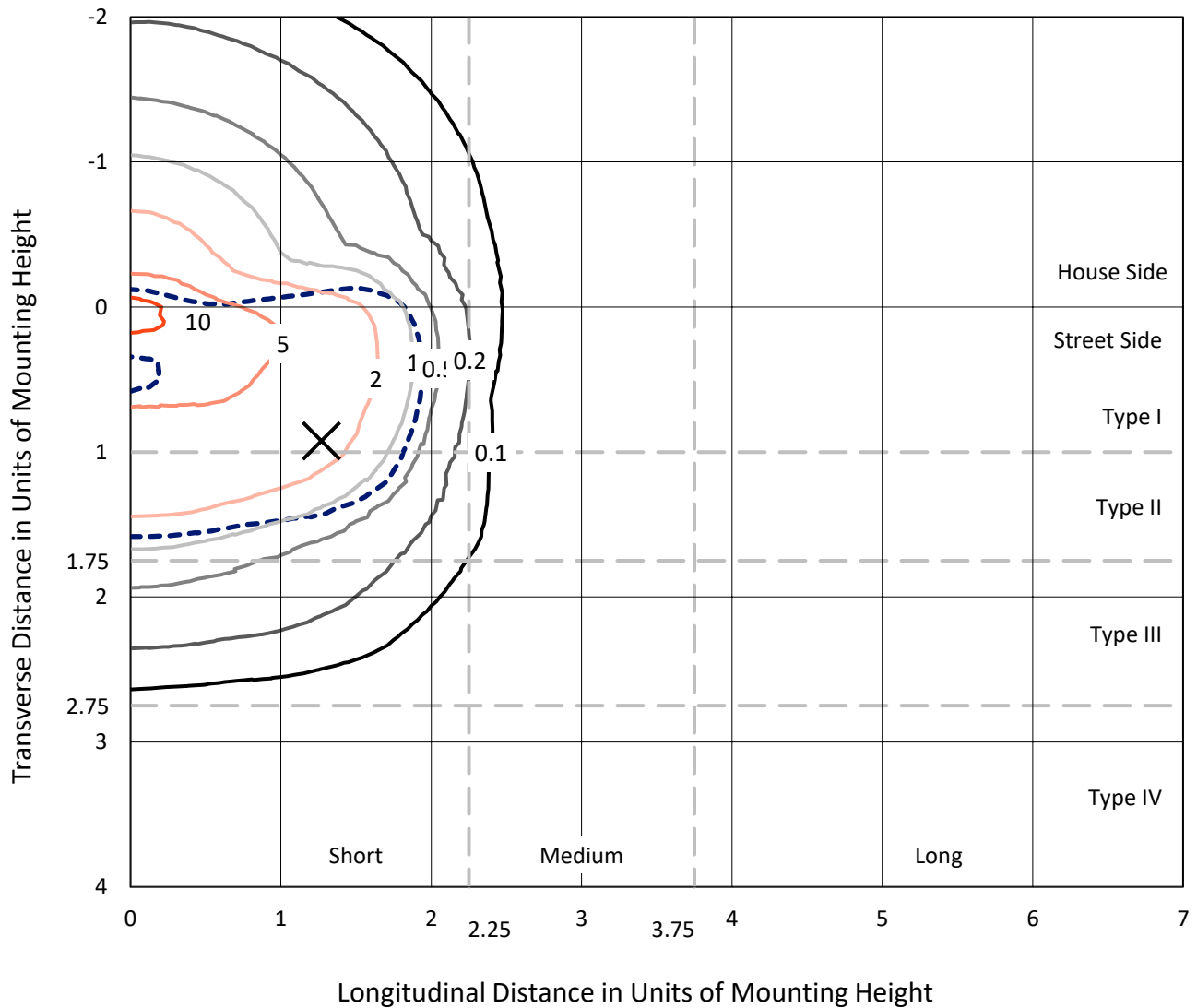
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

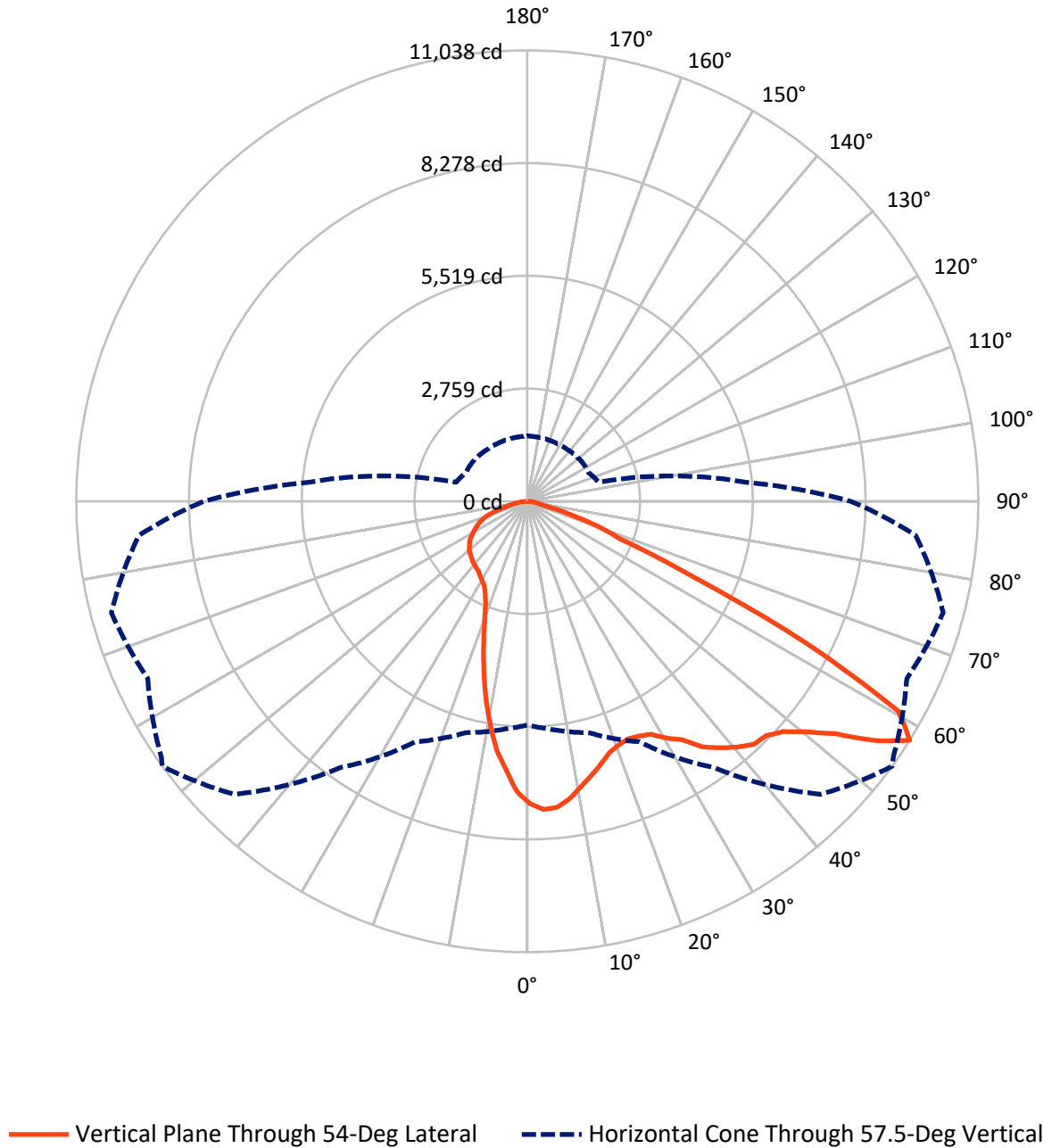
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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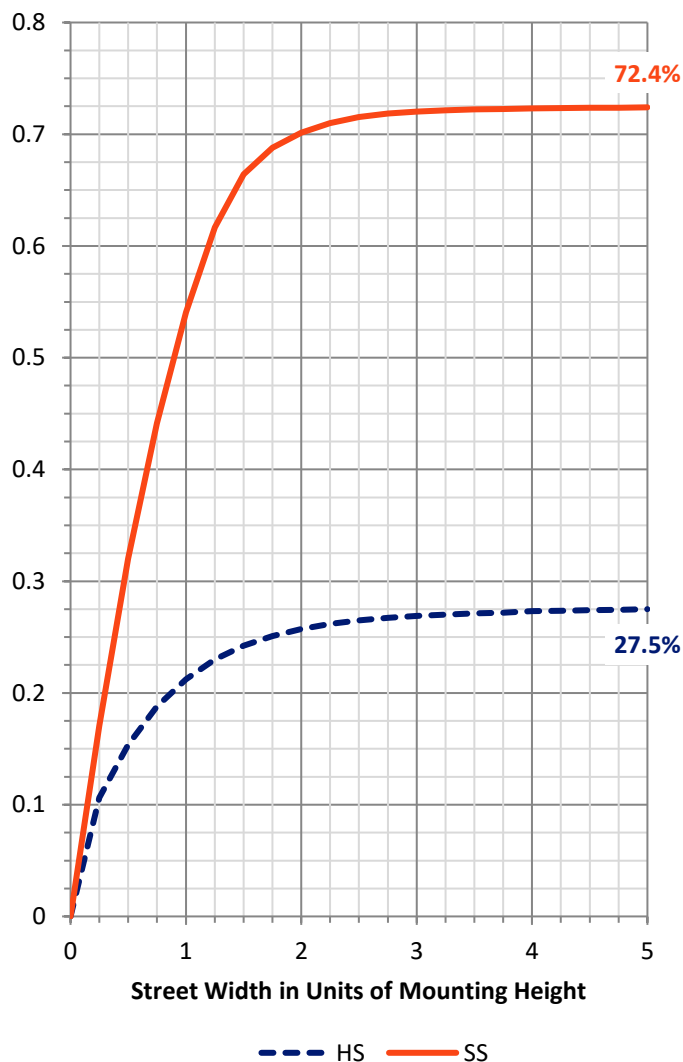
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5265.3	0.0	5265.3
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	13766.7	0.0	13766.7
	% Fixture	72.3	0.0	72.3
Total	Lumens	19032.0	0.0	19032.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	638.0	3.4
10°-20°	1477.1	7.8
20°-30°	2075.4	10.9
30°-40°	2901.4	15.2
40°-50°	3927.9	20.6
50°-60°	4784.4	25.1
60°-70°	2491.9	13.1
70°-80°	638.5	3.4
80°-90°	97.4	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°	19032.0	100.0
0°-180°	19032.0	100.0



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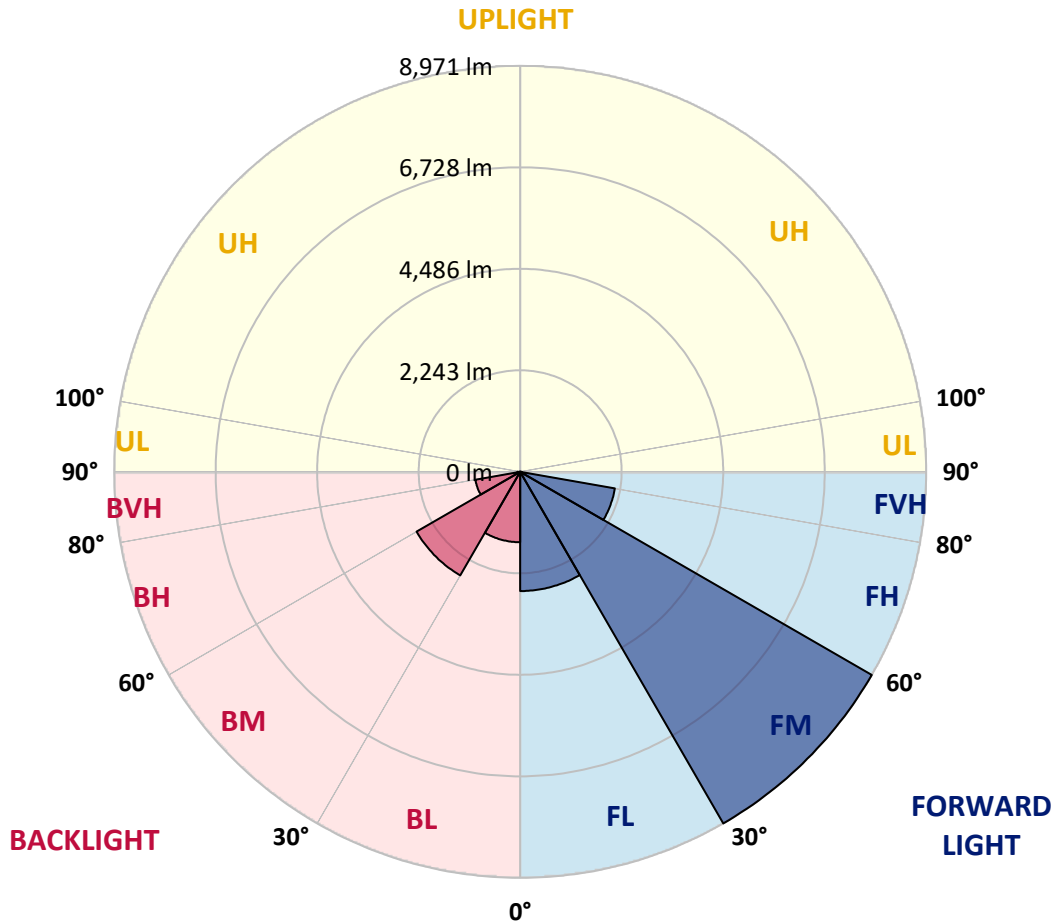
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2634.3	13.8			
FM (30°-60°)	8971.1	47.1			
FH (60°-80°)	2124.5	11.2			G2/5000
FVH (80°-90°)	36.8	0.2			G1/100
BL (0°-30°)	1556.2	8.2	B3/2500		
BM (30°-60°)	2642.6	13.9	B3/5000		
BH (60°-80°)	1005.9	5.3	B3/2500		G3/2500
BVH (80°-90°)	60.6	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	7397.5	7397.5	7397.5	7397.5	7397.5	7397.5	7397.5	7397.5	7397.5	7397.5	7397.5
2.5°	7607.9	7578.5	7583.4	7622.6	7573.7	7554.1	7554.1	7458.7	7466.0	7400.0	7382.8
5°	7431.8	7363.3	7409.8	7468.5	7478.2	7497.8	7529.6	7505.2	7436.7	7365.7	7250.7
7.5°	6971.9	7033.0	7050.2	7091.7	7179.8	7260.5	7360.8	7292.3	7289.9	7218.9	7150.4
10°	6568.2	6531.5	6624.5	6685.7	6832.4	6967.0	7121.1	7113.8	7150.4	7069.7	6952.3
12.5°	6167.0	6137.7	6181.7	6321.2	6526.6	6722.3	6905.8	6837.3	7033.0	7018.3	6766.4
15°	5741.4	5763.4	5827.0	5956.7	6225.8	6460.6	6693.0	6695.4	6869.1	6927.8	6590.3
17.5°	5443.0	5418.5	5499.2	5692.5	5932.2	6213.5	6477.7	6531.5	6798.2	6832.4	6536.4
20°	5220.3	5254.6	5359.8	5457.6	5734.1	6074.1	6372.5	6392.1	6783.5	6876.5	6450.8
22.5°	5166.5	5147.0	5181.2	5340.2	5567.7	5937.1	6316.3	6389.7	6781.1	6861.8	6289.4
25°	5110.3	5173.9	5171.4	5330.4	5496.8	5827.0	6362.7	6443.5	6910.7	6937.6	6311.4
27.5°	5237.5	5230.1	5298.6	5310.9	5516.3	5856.4	6460.6	6521.8	7126.0	7104.0	6328.5
30°	5364.7	5328.0	5369.6	5513.9	5609.3	6025.2	6729.7	6724.8	7404.9	7390.2	6382.3
32.5°	5521.2	5504.1	5531.0	5658.2	5819.7	6250.2	6957.2	7101.5	7688.6	7781.6	6568.2
35°	5550.6	5621.5	5685.1	5856.4	6086.3	6614.7	7385.3	7505.2	8016.4	8307.5	6922.9
37.5°	5736.5	5763.4	5912.6	6216.0	6426.4	7101.5	7656.8	7732.7	8314.9	8645.1	7297.2
40°	5934.7	5966.5	6191.5	6509.5	6798.2	7419.5	7911.2	7935.7	8410.3	8904.4	7541.9
42.5°	6203.7	6233.1	6455.7	6854.4	7241.0	7691.1	8136.3	8163.2	8402.9	9202.9	7930.8
45°	6482.6	6553.6	6815.3	7267.9	7615.2	8009.1	8187.7	8297.7	8471.4	9469.5	8246.4
47.5°	6874.0	6940.1	7155.3	7598.1	8004.2	8288.0	8425.0	8532.6	8635.3	9701.9	8449.4
50°	7289.9	7302.1	7563.9	7965.1	8263.5	8603.5	8867.7	8904.4	8850.6	9971.0	8794.3
52.5°	7595.7	7634.8	7837.8	8229.3	8674.5	9092.8	9454.8	9494.0	9388.8	10071.3	8911.8
55°	7089.3	7067.3	7397.5	7918.6	8950.9	9821.8	10347.7	10377.1	9780.2	10382.0	9295.8
57.5°	5479.6	5584.8	5866.2	6494.8	7952.8	10144.7	11037.6	10932.4	10249.9	10538.5	9540.5
60°	3982.5	3958.1	4146.4	4567.2	5993.4	8743.0	10435.8	10543.4	9865.8	9498.9	7867.2
62.5°	3243.8	3209.5	3224.2	3238.9	3867.6	5802.6	7725.3	7722.9	7598.1	6827.5	5306.0
65°	2593.0	2673.8	2681.1	2791.2	2871.9	3466.4	4476.7	4716.4	4107.3	3368.5	2443.8
67.5°	1954.6	1925.2	2023.1	2414.5	2566.1	2502.5	2443.8	2470.7	1756.4	1267.2	1193.8
70°	1152.2	1140.0	1257.4	1683.0	2113.6	1988.8	1842.0	1844.5	1206.0	885.5	985.8
72.5°	631.1	628.7	653.2	853.7	1201.1	1247.6	1105.7	1140.0	719.2	716.8	770.6
75°	352.3	344.9	337.6	376.7	433.0	457.5	467.2	472.1	494.1	552.9	574.9
77.5°	129.7	124.8	124.8	144.3	183.5	229.9	291.1	296.0	349.8	401.2	423.2
80°	44.0	48.9	66.0	90.5	122.3	163.9	198.1	203.0	247.1	281.3	288.7
82.5°	26.9	29.4	44.0	63.6	88.1	115.0	146.8	149.2	183.5	205.5	215.3
85°	12.2	14.7	24.5	39.1	56.3	75.8	78.3	78.3	75.8	78.3	73.4
87.5°	0.0	0.0	4.9	4.9	4.9	7.3	9.8	7.3	12.2	14.7	14.7
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°	7397.5	7397.5	7397.5	7397.5	7397.5	7397.5	7397.5	7397.5	7397.5	7397.5	7397.5
2.5°	7331.5	7304.6	7221.4	7148.0	7126.0	7028.1	6883.8	6900.9	6795.7	6844.7	6793.3
5°	7231.2	7140.7	6927.8	6837.3	6600.0	6492.4	6419.0	6235.5	6149.9	6132.8	6059.4
7.5°	6974.3	6918.1	6651.4	6406.8	6154.8	5939.5	5663.1	5474.8	5340.2	5303.5	5195.9
10°	6771.3	6646.5	6277.1	5905.3	5545.7	5171.4	4811.8	4530.5	4393.5	4234.5	4180.7
12.5°	6570.7	6382.3	5883.3	5406.3	4941.5	4469.3	4033.9	3691.4	3393.0	3322.0	3297.6
15°	6445.9	6118.1	5531.0	4956.1	4295.7	3679.2	3243.8	3018.7	2835.2	2759.4	2813.2
17.5°	6282.0	5900.4	5193.4	4427.7	3701.2	3133.7	2769.2	2629.7	2563.7	2571.0	2549.0
20°	6076.5	5694.9	4750.7	3948.3	3170.4	2717.8	2509.9	2458.5	2468.3	2485.4	2478.1
22.5°	5929.8	5445.4	4430.2	3459.0	2739.8	2487.9	2402.2	2365.5	2397.3	2412.0	2399.8
25°	5817.2	5232.6	4041.2	3026.0	2490.3	2358.2	2319.1	2316.6	2365.5	2385.1	2372.9
27.5°	5714.5	5034.4	3654.7	2695.8	2324.0	2257.9	2245.7	2275.0	2306.8	2326.4	2343.5
30°	5653.3	4882.8	3292.7	2419.4	2240.8	2209.0	2187.0	2213.9	2231.0	2250.6	2240.8
32.5°	5712.0	4775.1	2942.9	2262.8	2172.3	2140.5	2169.8	2152.7	2182.1	2199.2	2172.3
35°	5895.5	4679.7	2693.3	2179.6	2094.0	2106.2	2111.1	2103.8	2116.0	2101.3	2133.1
37.5°	6076.5	4645.5	2463.4	2108.7	2057.3	2057.3	2052.4	2037.7	2062.2	2057.3	2072.0
40°	6306.5	4667.5	2267.7	2032.9	2023.1	2018.2	1998.6	1996.2	1986.4	1988.8	1993.7
42.5°	6507.1	4716.4	2155.2	1983.9	1991.3	2001.0	1964.4	1935.0	1947.2	1922.8	1922.8
45°	6719.9	4760.4	2054.9	1949.7	1942.3	1939.9	1910.5	1893.4	1883.6	1886.1	1908.1
47.5°	7055.0	4824.0	1979.0	1903.2	1908.1	1871.4	1864.1	1842.0	1851.8	1866.5	1869.0
50°	7292.3	4958.6	1920.3	1849.4	1866.5	1842.0	1798.0	1788.2	1788.2	1812.7	1807.8
52.5°	7458.7	5147.0	1864.1	1790.7	1798.0	1778.4	1763.8	1741.7	1727.1	1761.3	1778.4
55°	7967.5	5460.1	1849.4	1741.7	1739.3	1719.7	1692.8	1670.8	1663.5	1668.4	1702.6
57.5°	7918.6	5362.2	1802.9	1656.1	1651.2	1624.3	1597.4	1590.1	1587.6	1592.5	1602.3
60°	6428.8	3960.5	1609.6	1558.3	1550.9	1546.0	1519.1	1489.8	1475.1	1489.8	1477.5
62.5°	4254.1	2651.8	1418.8	1440.9	1445.7	1433.5	1389.5	1360.1	1365.0	1382.1	1355.2
65°	2089.1	1558.3	1286.7	1345.4	1350.3	1316.1	1274.5	1240.3	1223.1	1237.8	1225.6
67.5°	1193.8	1191.3	1179.1	1240.3	1237.8	1203.6	1137.5	1108.2	1078.8	1083.7	1076.4
70°	1012.8	1032.3	1056.8	1093.5	1091.0	1051.9	973.6	951.6	910.0	905.1	892.9
72.5°	797.5	831.7	885.5	912.5	890.4	841.5	790.1	753.5	716.8	694.7	702.1
75°	592.0	640.9	670.3	687.4	653.2	626.2	584.7	540.6	496.6	477.0	469.7
77.5°	430.5	445.2	472.1	484.4	462.3	435.4	411.0	366.9	325.4	298.4	291.1
80°	300.9	310.7	330.2	330.2	330.2	318.0	286.2	242.2	215.3	190.8	185.9
82.5°	210.4	220.2	239.7	229.9	227.5	212.8	193.3	159.0	129.7	112.5	107.6
85°	73.4	80.7	97.9	117.4	124.8	122.3	110.1	88.1	68.5	56.3	51.4
87.5°	17.1	17.1	19.6	17.1	17.1	19.6	17.1	17.1	17.1	12.2	9.8
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)