

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: P651340

Luminaire Tested: **GALN-SA4D-840-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651340
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4D-840-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21813.9 lumens
Efficiency: N/A
Efficacy: 89.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

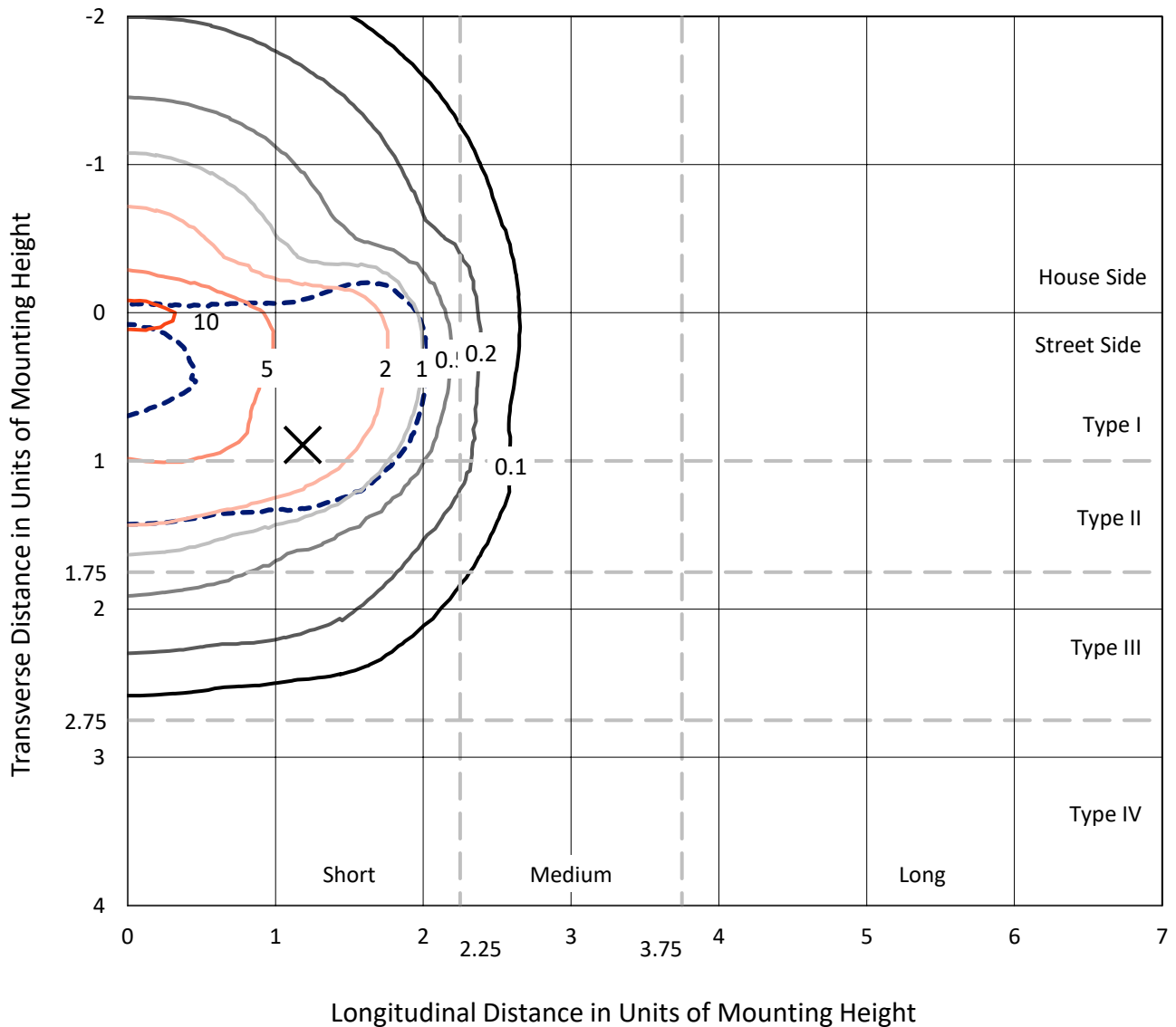
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

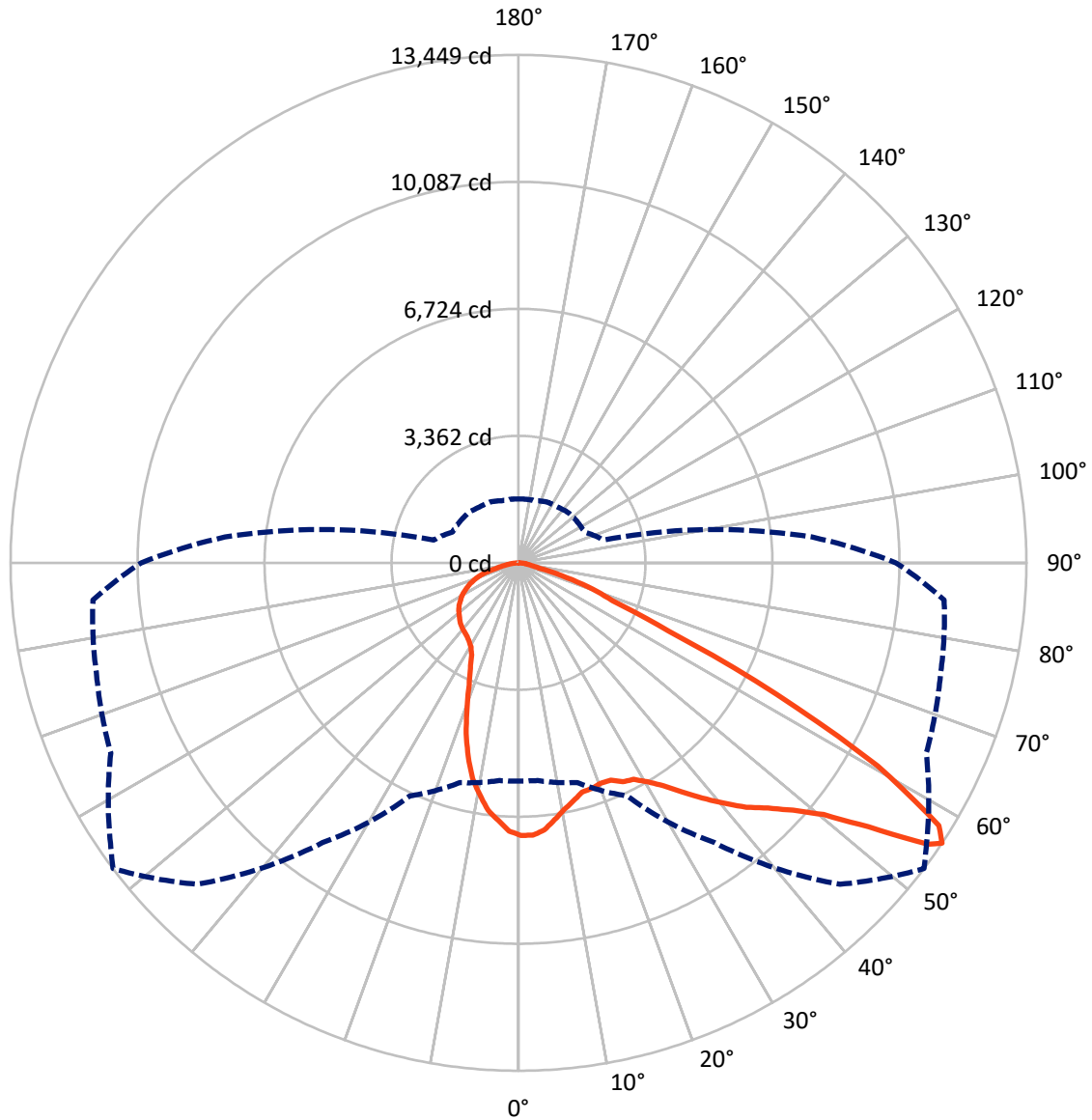
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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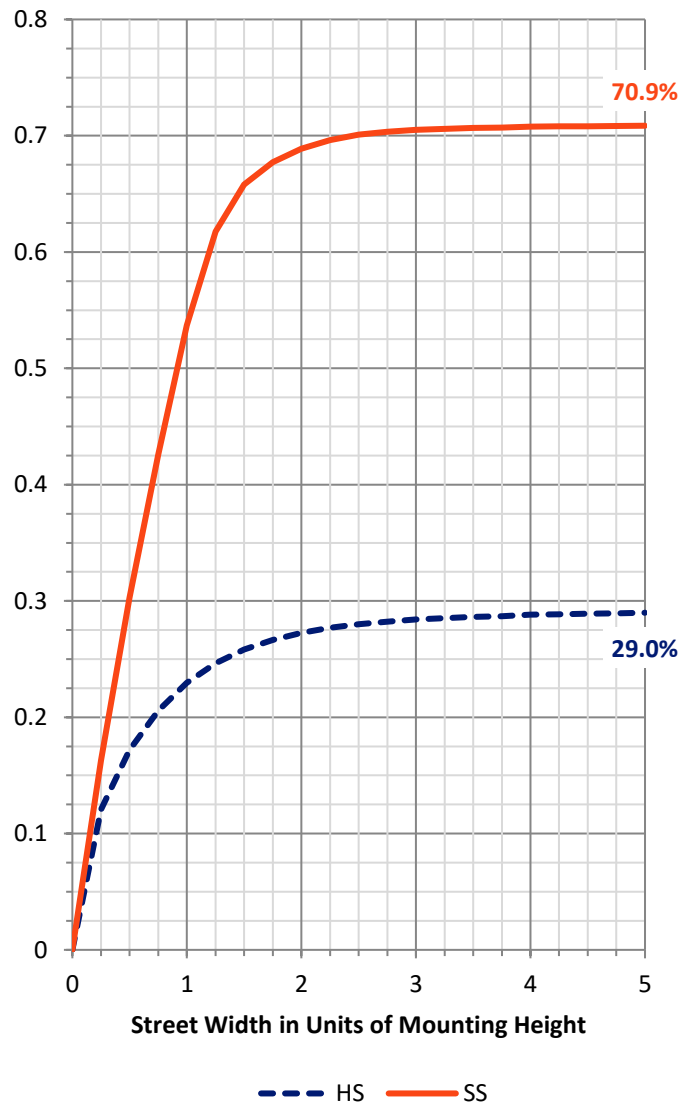
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6365.8	0.0	6365.8
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	15448.1	0.0	15448.1
	% Fixture	70.8	0.0	70.8
Total	Lumens	21813.9	0.0	21813.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	638.9	2.9
10°-20°	1595.7	7.3
20°-30°	2353.0	10.8
30°-40°	3362.0	15.4
40°-50°	4627.3	21.2
50°-60°	5468.2	25.1
60°-70°	2914.2	13.4
70°-80°	739.3	3.4
80°-90°	115.3	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°	21813.9	100.0
0°-180°	21813.9	100.0

Coefficient of Utilization



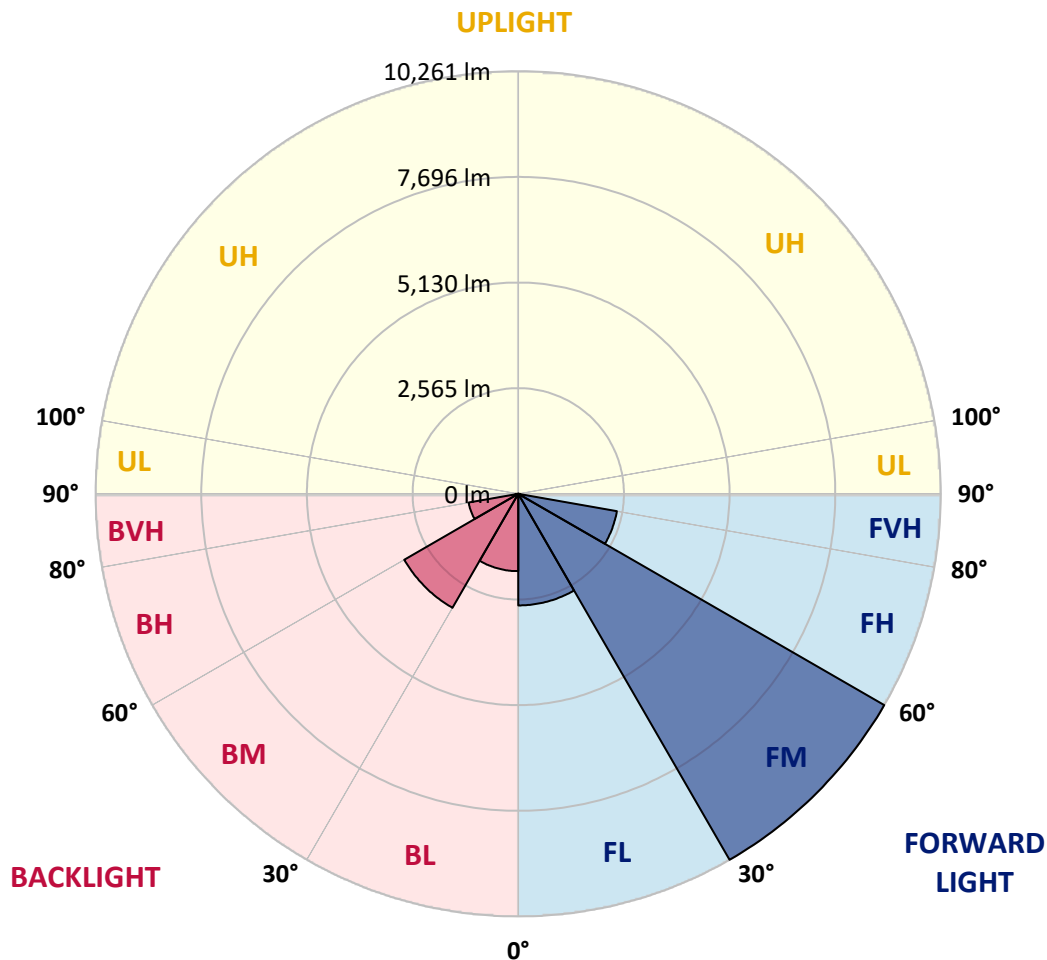
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2710.1	12.4			
FM (30°-60°)	10260.8	47.0			
FH (60°-80°)	2430.9	11.1			G2/5000
FVH (80°-90°)	46.3	0.2			G1/100
BL (0°-30°)	1877.5	8.6	B3/2500		
BM (30°-60°)	3196.7	14.7	B3/5000		
BH (60°-80°)	1222.6	5.6	B3/2500		G3/2500
BVH (80°-90°)	68.9	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°	53°	55°	65°	75°	85°
0°	7216.9	7216.9	7216.9	7216.9	7216.9	7216.9	7216.9	7216.9	7216.9	7216.9	7216.9
2.5°	7127.3	7065.7	7102.2	7088.2	7202.9	7236.5	7219.6	7233.7	7298.0	7267.2	7202.9
5°	6660.0	6746.8	6763.6	6805.5	6872.7	7004.2	7107.7	7135.7	7166.5	7309.2	7295.3
7.5°	6234.7	6293.5	6262.7	6385.8	6531.3	6744.0	6869.9	6892.2	7174.9	7253.3	7312.0
10°	5966.1	5907.3	6047.2	6080.8	6245.9	6489.3	6640.5	6732.8	6990.2	7300.8	7337.2
12.5°	5716.9	5697.4	5781.4	5876.5	6061.2	6313.1	6467.0	6503.3	6900.7	7228.1	7398.8
15°	5532.3	5509.9	5593.8	5663.8	5879.3	6103.1	6299.0	6402.5	6802.8	7186.1	7345.6
17.5°	5386.8	5384.0	5431.5	5557.5	5778.5	5966.1	6282.3	6287.8	6752.4	7250.4	7390.4
20°	5378.4	5375.6	5384.0	5523.9	5725.4	5954.9	6229.0	6279.4	6752.4	7205.7	7393.1
22.5°	5448.3	5403.6	5454.0	5543.5	5689.0	5974.5	6248.6	6360.6	6914.7	7426.8	7519.1
25°	5560.3	5571.5	5599.5	5630.2	5714.2	6019.2	6422.1	6514.5	7104.9	7617.0	7692.6
27.5°	5764.6	5758.9	5770.2	5786.9	5859.7	6061.2	6492.1	6729.9	7502.3	7955.6	7880.1
30°	6063.9	6044.4	6089.2	6148.0	6080.8	6195.5	6724.4	6903.4	7871.7	8297.1	8090.0
32.5°	6335.4	6408.2	6492.1	6517.3	6436.2	6458.5	7032.2	7214.1	8179.5	8716.8	8347.4
35°	6674.0	6732.8	6844.7	6923.0	6909.1	6841.9	7451.9	7692.6	8624.5	9024.6	8618.8
37.5°	7004.2	7074.2	7258.8	7491.1	7362.4	7331.6	7899.7	8098.3	8761.5	9189.7	8817.5
40°	7535.9	7533.1	7852.1	7972.4	8087.1	8034.0	8364.2	8431.4	8834.3	9153.4	8823.1
42.5°	8159.9	8120.8	8445.3	8632.9	8781.1	8786.8	8848.3	8826.0	8867.9	8968.7	8764.4
45°	8753.1	8837.1	9164.5	9500.4	9648.6	9665.4	9256.9	9214.9	8926.6	8915.4	8652.5
47.5°	9477.9	9497.5	9766.2	10208.3	10552.4	10435.0	9785.7	9693.4	9184.1	9270.8	8839.9
50°	9519.9	9665.4	9906.1	10426.5	11484.4	11453.6	10471.4	10297.9	9598.2	9774.5	9363.2
52.5°	8641.2	8607.6	8893.1	9743.7	11414.4	12466.6	11607.5	11193.3	10488.1	10353.8	10211.1
55°	6584.4	6662.8	6914.7	7773.8	9911.7	12480.5	13154.9	12816.3	11439.5	11210.1	11045.0
56°	5775.7	5786.9	6024.8	6808.3	9044.2	12035.6	13448.8	13174.5	11912.5	11562.7	11310.9
57.5°	4787.9	4723.6	4846.7	5274.8	7633.8	11095.4	13126.9	13395.6	12466.6	11943.3	11593.4
60°	3769.4	3755.3	3705.0	3783.3	4824.3	8358.6	10927.4	11531.9	12410.6	11585.1	11103.7
62.5°	3078.1	3008.2	3108.9	3220.9	3352.4	5185.3	7678.6	8034.0	9852.9	9248.5	8341.8
65°	2387.0	2353.4	2479.4	2843.1	2921.5	3293.6	4373.8	4648.0	5817.7	5714.2	5031.4
67.5°	1642.6	1648.2	1757.4	2311.4	2708.8	2675.2	2678.0	2820.7	3036.2	2255.5	1964.4
70°	1041.0	1038.2	1096.9	1488.7	2179.9	2202.2	2090.4	2048.3	1942.0	1175.3	1245.3
72.5°	668.8	649.3	680.0	822.7	1127.7	1304.1	1343.2	1368.4	1124.9	923.4	1001.8
75°	377.8	358.2	347.0	383.4	445.0	514.9	565.2	582.1	652.0	699.5	741.6
77.5°	114.7	103.5	125.9	167.9	221.1	296.6	361.0	372.1	439.3	495.3	537.3
80°	50.4	55.9	78.4	111.9	156.7	209.9	254.7	271.5	316.2	358.2	369.4
82.5°	30.8	33.6	53.2	75.5	109.2	148.4	181.9	187.5	232.3	265.8	274.3
85°	11.2	14.0	28.0	44.7	70.0	95.1	95.1	103.5	95.1	95.1	103.5
87.5°	0.0	0.0	2.8	5.6	5.6	8.4	11.2	11.2	14.0	16.8	19.6
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°	7216.9	7216.9	7216.9	7216.9	7216.9	7216.9	7216.9	7216.9	7216.9	7216.9	7216.9
2.5°	7236.5	7222.5	7200.1	7119.0	7110.6	7085.3	6945.5	6923.0	6945.5	6878.3	6883.9
5°	7222.5	7264.5	7096.5	7015.4	6864.3	6755.2	6629.3	6564.8	6450.1	6377.4	6458.5
7.5°	7284.1	7267.2	7057.4	6881.1	6654.4	6377.4	6156.3	6030.4	5828.9	5773.0	5814.9
10°	7261.7	7172.1	6925.9	6693.6	6265.4	6022.0	5663.8	5316.8	5126.6	5028.6	5014.6
12.5°	7230.8	7205.7	6794.4	6394.2	5943.7	5431.5	4927.8	4600.4	4289.9	4155.5	4175.1
15°	7267.2	7054.6	6548.1	6041.6	5442.8	4771.2	4228.3	3805.7	3590.2	3503.5	3503.5
17.5°	7250.4	6981.8	6430.5	5647.1	4888.6	4094.0	3497.9	3243.2	3153.8	3153.8	3178.9
20°	7258.8	7029.4	6192.7	5252.5	4233.8	3447.5	3013.8	2921.5	2960.7	2974.6	2988.6
22.5°	7306.4	6872.7	5960.4	4818.7	3626.6	2949.5	2736.8	2739.6	2809.5	2885.1	2871.1
25°	7365.2	6811.1	5677.8	4387.7	3162.1	2706.0	2638.8	2630.4	2683.6	2722.7	2728.4
27.5°	7314.8	6704.8	5389.5	3850.5	2781.5	2543.7	2529.7	2535.3	2552.1	2630.4	2605.2
30°	7479.9	6735.6	5028.6	3400.0	2571.7	2490.5	2473.7	2465.3	2490.5	2512.9	2493.3
32.5°	7684.2	6626.4	4760.0	2966.2	2468.1	2451.3	2417.8	2406.5	2420.6	2398.2	2409.4
35°	7773.8	6606.8	4410.2	2655.6	2387.0	2373.0	2353.4	2350.6	2353.4	2333.8	2317.0
37.5°	7824.2	6699.2	4010.0	2512.9	2336.6	2350.6	2305.9	2300.2	2249.8	2261.0	2269.4
40°	7910.9	6556.5	3685.4	2375.7	2305.9	2277.8	2238.7	2230.2	2196.7	2177.1	2196.7
42.5°	7785.0	6514.5	3366.4	2317.0	2261.0	2230.2	2202.2	2154.7	2143.5	2126.7	2115.5
45°	7684.2	6273.9	3080.9	2244.3	2207.9	2191.1	2137.9	2087.5	2045.6	2062.4	2037.2
47.5°	7759.7	6189.9	2798.3	2182.7	2135.1	2115.5	2062.4	2023.2	1981.2	1961.6	1956.0
50°	8062.0	6346.6	2560.5	2137.9	2073.6	2062.4	1992.4	1947.7	1908.5	1894.4	1900.1
52.5°	8783.9	6774.8	2398.2	2045.6	2014.8	1964.4	1925.2	1869.3	1844.1	1799.3	1827.3
55°	9699.0	7471.5	2356.2	1958.9	1942.0	1897.3	1844.1	1802.1	1754.6	1718.2	1709.8
56°	9992.8	7804.6	2322.6	1925.2	1897.3	1872.1	1802.1	1776.9	1701.3	1693.0	1687.4
57.5°	10230.7	8098.3	2328.2	1860.9	1832.9	1810.5	1768.5	1707.0	1656.6	1625.8	1639.8
60°	9693.4	7580.7	2221.8	1762.9	1757.4	1715.4	1656.6	1628.6	1567.0	1530.7	1522.3
62.5°	7205.7	5146.2	1802.1	1637.0	1634.2	1589.5	1522.3	1491.5	1480.3	1430.0	1430.0
65°	4149.9	3226.5	1558.7	1533.5	1511.1	1466.3	1399.2	1373.9	1346.0	1329.2	1315.2
67.5°	1771.3	1673.4	1416.0	1413.1	1388.0	1332.0	1264.9	1225.7	1189.3	1155.7	1172.5
70°	1284.5	1304.1	1278.8	1264.9	1234.1	1164.1	1105.3	1057.7	1001.8	979.4	996.2
72.5°	1018.6	1060.6	1096.9	1099.8	1063.4	982.2	917.9	853.5	791.9	761.1	775.1
75°	772.4	800.3	836.7	845.1	791.9	736.0	674.4	607.2	559.7	523.3	528.9
77.5°	556.8	551.3	584.8	579.3	554.1	514.9	458.9	397.4	344.2	310.6	313.4
80°	380.6	389.0	408.6	405.8	375.0	349.8	307.8	257.4	218.2	190.3	184.7
82.5°	265.8	279.8	296.6	282.7	257.4	232.3	201.5	165.1	134.3	111.9	106.3
85°	95.1	109.2	125.9	134.3	142.7	137.1	114.7	92.3	67.2	55.9	53.2
87.5°	19.6	22.4	25.1	25.1	25.1	22.4	19.6	19.6	16.8	8.4	8.4
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)