

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: P651304

Luminaire Tested: **GALN-SA3D-840-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651304
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3D-840-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16290.2 lumens
Efficiency: N/A
Efficacy: 88.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

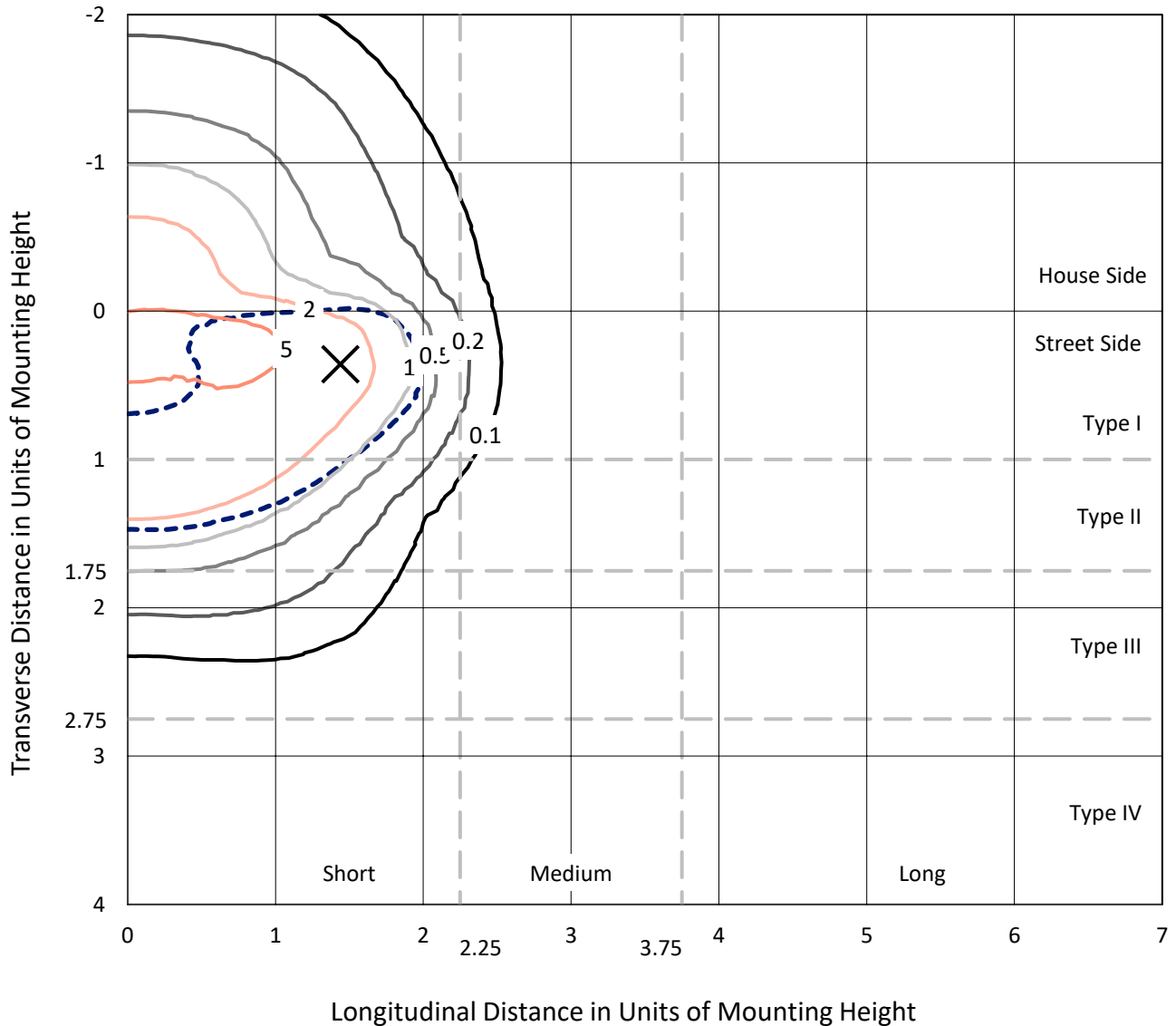
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

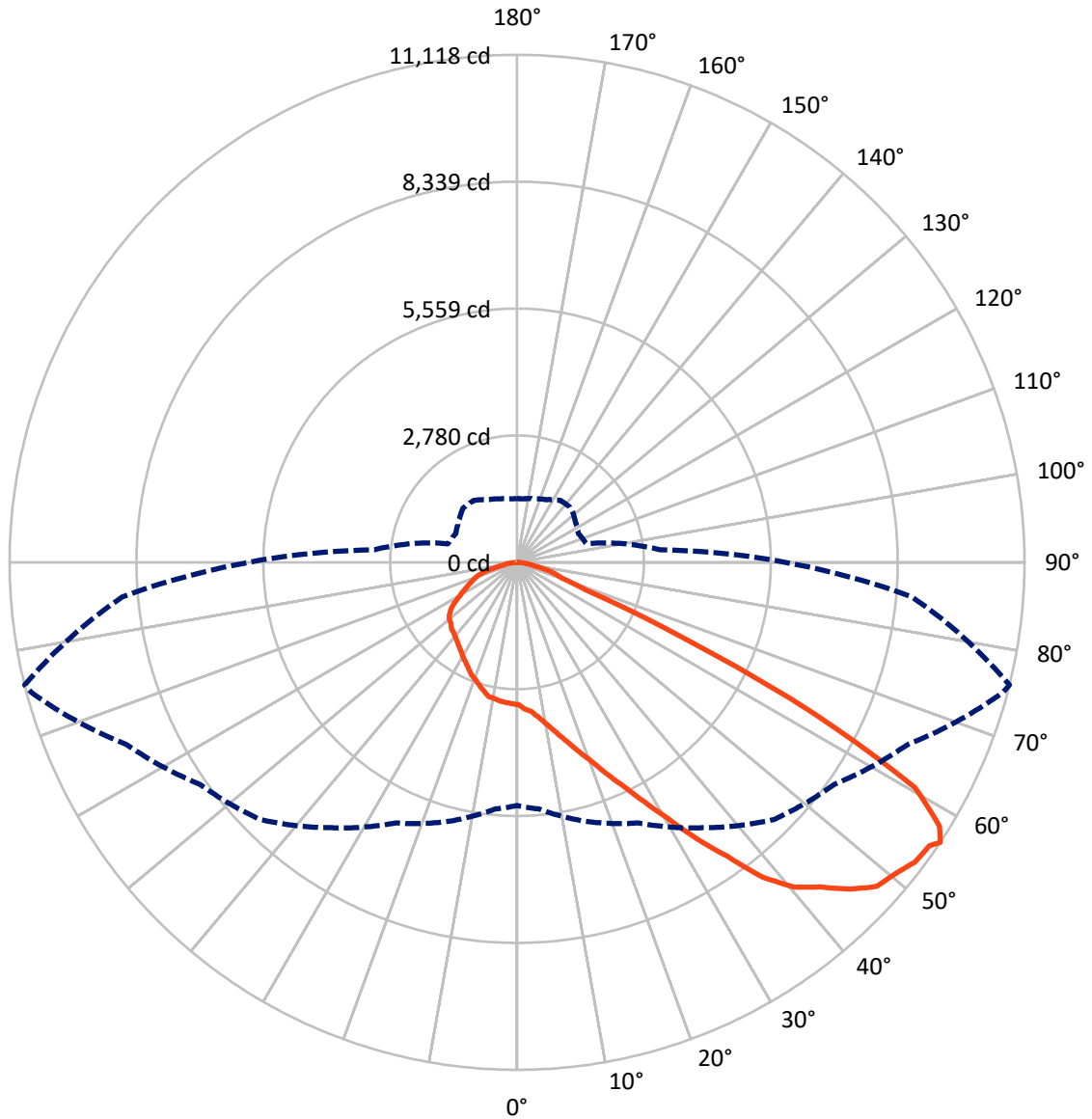
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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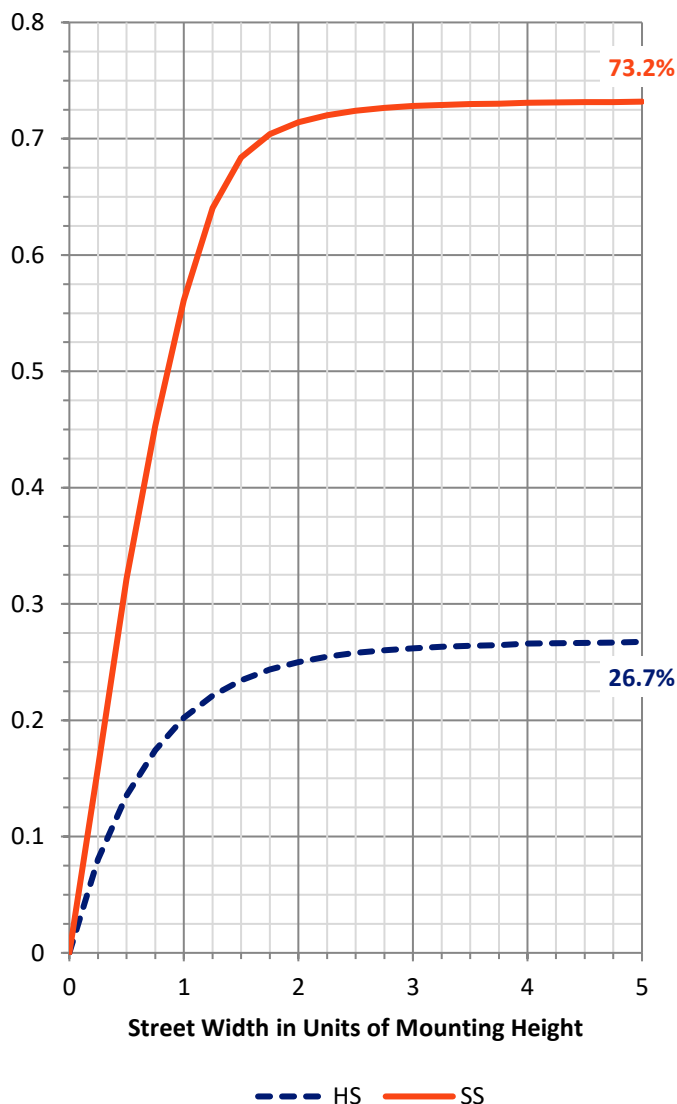
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4379.9	0.0	4379.9
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	11910.2	0.0	11910.2
	% Fixture	73.1	0.0	73.1
Total	Lumens	16290.2	0.0	16290.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	309.1	1.9
10°-20°	971.0	6.0
20°-30°	1698.2	10.4
30°-40°	2658.8	16.3
40°-50°	3867.8	23.7
50°-60°	4250.9	26.1
60°-70°	1897.4	11.6
70°-80°	548.1	3.4
80°-90°	88.9	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°	16290.2	100.0
0°-180°	16290.2	100.0

Coefficient of Utilization



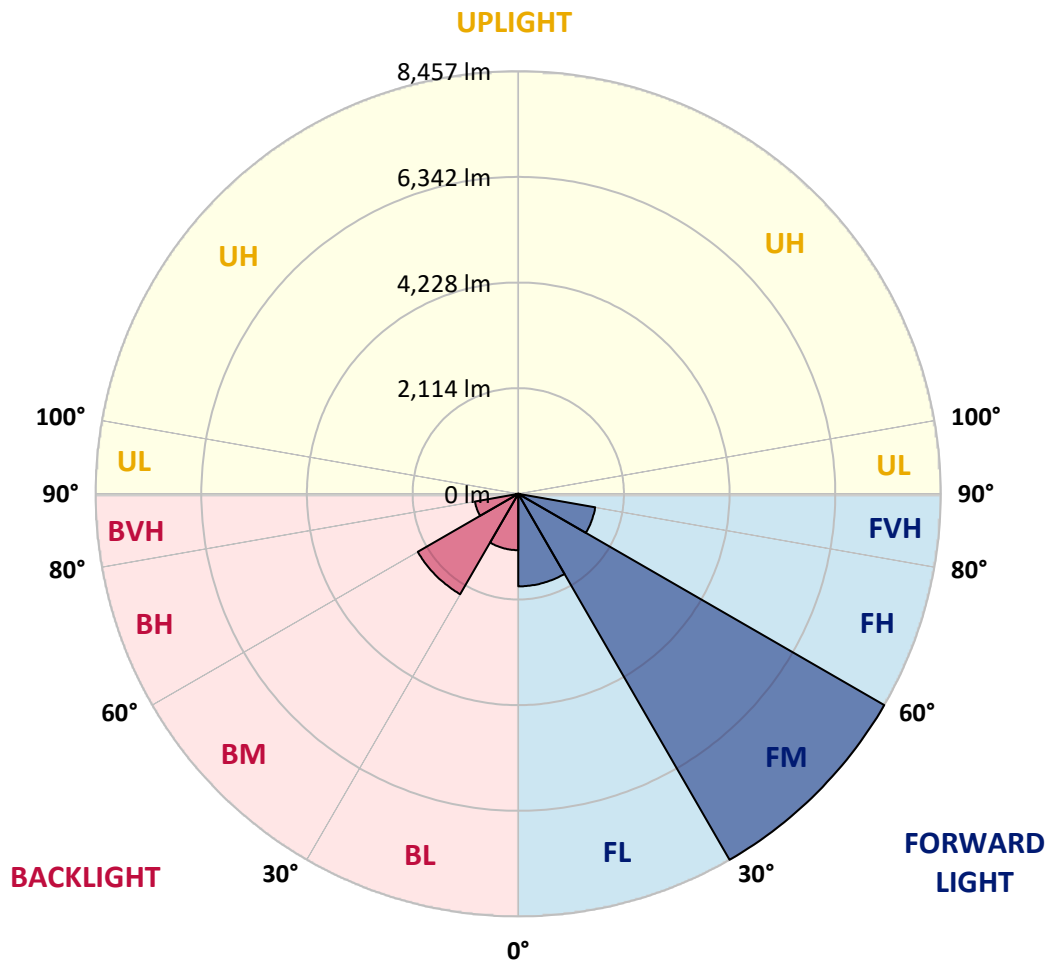
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1851.2	11.4			
FM (30°-60°)	8456.5	51.9			
FH (60°-80°)	1564.2	9.6			G1/1800
FVH (80°-90°)	38.3	0.2			G1/100
BL (0°-30°)	1127.0	6.9	B3/2500		
BM (30°-60°)	2321.0	14.2	B2/2500		
BH (60°-80°)	881.3	5.4	B2/1000		G2/1000
BVH (80°-90°)	50.6	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3116.9	3116.9	3116.9	3116.9	3116.9	3116.9	3116.9	3116.9	3116.9	3116.9	3116.9
2.5°	3433.6	3378.8	3374.5	3359.8	3368.2	3330.2	3290.1	3237.3	3182.3	3216.2	3135.9
5°	3674.4	3600.5	3630.1	3579.4	3585.7	3535.1	3452.6	3391.4	3323.9	3283.8	3226.7
7.5°	3758.8	3765.2	3786.4	3777.9	3735.6	3735.6	3680.7	3573.1	3454.8	3431.5	3336.5
10°	3872.9	3875.0	3851.8	3858.2	3917.3	3889.8	3841.3	3794.8	3642.7	3615.3	3446.3
12.5°	3913.0	3875.0	3913.0	3946.8	4016.5	4054.5	4043.9	4010.1	3847.6	3828.6	3581.5
15°	3919.4	3896.2	3927.8	4003.8	4065.1	4225.6	4305.8	4282.6	4067.2	4069.3	3733.5
17.5°	3889.8	3921.5	3934.1	3999.6	4141.1	4291.0	4523.3	4555.0	4377.7	4350.2	3925.7
20°	3929.9	3906.7	3923.6	3982.7	4170.7	4405.1	4709.2	4918.3	4669.1	4650.1	4124.2
22.5°	4084.1	4052.4	4048.2	4086.2	4221.3	4464.2	4905.6	5281.5	5023.8	5034.4	4371.3
25°	4204.5	4221.3	4206.6	4204.5	4288.9	4552.9	5165.3	5714.3	5505.3	5444.0	4662.7
27.5°	4411.4	4451.5	4422.0	4462.1	4443.1	4686.0	5351.1	6193.7	6024.8	5942.4	4926.7
30°	4698.6	4719.7	4692.3	4692.3	4635.3	4871.7	5520.1	6694.2	6624.5	6512.6	5237.1
32.5°	5076.6	5108.3	5053.4	5021.7	5013.3	5148.4	5824.2	7188.4	7306.6	7211.6	5648.9
35°	5577.1	5558.1	5492.6	5463.1	5349.0	5572.9	6276.0	7756.4	8066.8	7897.9	6147.3
37.5°	6018.4	5988.8	5984.6	5820.0	5847.4	6031.1	6660.4	8187.2	8803.8	8755.2	6673.1
40°	6430.2	6457.7	6502.0	6409.1	6366.9	6569.6	7108.0	8516.6	9376.1	9357.1	7078.5
42.5°	6871.6	6846.2	6924.4	6846.2	6782.9	7070.0	7593.8	8744.7	9878.6	9722.4	7503.0
45°	7511.4	7431.2	7458.7	7465.0	7418.5	7524.1	7794.4	8909.4	10231.4	10214.4	7813.4
47.5°	8045.7	8047.8	8001.4	7965.4	7824.0	7929.5	8018.3	9012.8	10636.8	10609.3	7933.7
50°	8244.2	8216.7	8351.9	8430.0	8438.5	8223.0	8193.5	9069.8	10850.1	10729.7	8054.2
52.5°	7530.4	7555.8	7769.1	8233.6	8501.8	8525.0	8398.4	9188.2	10936.6	10911.3	8151.3
55°	6060.7	6183.1	6533.7	7070.0	7705.7	8404.7	8620.1	9310.6	10983.1	10962.0	8582.1
56°	5327.9	5422.9	5879.1	6299.3	7097.5	7967.5	8480.7	9441.6	11019.0	11118.3	8683.4
57.5°	4288.9	4398.8	4726.1	5203.3	6145.1	7135.5	8096.4	9281.0	10879.6	10917.6	8757.3
60°	2681.9	2692.5	3085.2	3399.9	4063.0	5030.1	6178.9	8075.3	10068.7	10013.8	7866.2
62.5°	1759.0	1761.2	2118.1	2375.7	2677.7	2899.4	3636.4	5355.3	7429.1	7331.9	5600.3
65°	1235.3	1262.8	1539.5	1883.7	2006.1	1890.0	1866.8	2823.4	4149.6	4010.1	3009.2
67.5°	903.8	905.9	1150.9	1520.4	1697.8	1438.1	1167.8	1379.0	1642.9	1638.7	1393.7
70°	597.6	622.9	810.9	1136.1	1338.9	1155.1	954.5	986.2	1045.3	1045.3	1036.9
72.5°	348.4	371.6	496.3	720.1	751.8	722.3	756.0	844.7	882.7	880.6	870.0
75°	198.5	209.1	236.5	299.9	373.7	441.4	555.4	639.8	677.8	701.1	673.6
77.5°	116.1	122.4	139.4	171.1	194.3	238.6	302.0	361.1	411.8	405.4	409.7
80°	61.2	61.2	78.1	101.3	135.1	169.0	200.6	234.4	261.9	268.2	274.5
82.5°	35.9	38.0	50.7	73.9	97.1	120.3	154.2	177.4	202.8	204.9	209.1
85°	19.0	21.1	31.7	48.6	65.4	73.9	76.0	71.8	78.1	73.9	84.4
87.5°	6.3	6.3	10.6	8.4	8.4	10.6	12.7	12.7	16.9	16.9	16.9
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°	3116.9	3116.9	3116.9	3116.9	3116.9	3116.9	3116.9	3116.9	3116.9	3116.9	3116.9
2.5°	3133.8	3133.8	3097.9	3030.4	3019.8	2992.4	2967.0	2964.9	2945.9	2929.0	2920.5
5°	3192.9	3127.5	3074.7	3013.5	2941.6	2907.8	2869.8	2827.6	2810.7	2827.6	2825.5
7.5°	3260.5	3205.6	3047.2	2933.2	2850.8	2817.0	2774.8	2730.5	2734.7	2734.7	2705.2
10°	3326.0	3252.1	2998.7	2852.9	2732.6	2707.3	2684.1	2700.9	2722.0	2726.3	2707.3
12.5°	3435.8	3269.0	2975.5	2772.7	2696.7	2641.7	2656.6	2703.0	2747.4	2734.7	2749.5
15°	3518.2	3283.8	2869.8	2690.4	2595.3	2620.6	2673.5	2705.2	2779.0	2770.6	2785.4
17.5°	3598.4	3292.2	2766.4	2580.5	2540.4	2610.1	2650.2	2741.0	2764.3	2814.9	2833.9
20°	3763.1	3309.1	2660.8	2513.0	2500.3	2580.5	2650.2	2692.5	2743.2	2787.5	2787.5
22.5°	3847.6	3300.7	2591.1	2424.3	2464.4	2515.1	2578.4	2650.2	2650.2	2692.5	2694.6
25°	3953.1	3266.9	2481.3	2382.0	2411.6	2460.2	2532.0	2506.6	2534.1	2534.1	2567.8
27.5°	4073.6	3195.0	2386.3	2306.0	2365.1	2418.0	2428.5	2411.6	2379.9	2375.7	2363.0
30°	4170.7	3106.3	2316.5	2280.7	2329.2	2358.8	2325.0	2289.1	2234.2	2230.0	2200.4
32.5°	4303.7	2996.6	2230.0	2217.3	2272.2	2274.3	2263.8	2208.9	2128.7	2094.8	2061.0
35°	4527.5	2933.2	2164.6	2183.5	2200.4	2194.1	2175.1	2116.0	2035.7	2020.9	2008.2
37.5°	4692.3	2886.7	2096.9	2120.2	2135.0	2143.4	2086.4	2020.9	2023.0	1993.5	1985.0
40°	4878.1	2857.2	2042.0	2052.6	2054.7	2082.1	2012.5	1980.8	1995.6	1976.6	1989.2
42.5°	5116.7	2865.6	1985.0	1976.6	2016.7	2006.1	1972.4	1930.1	1938.6	1881.6	1890.0
45°	5243.5	2922.6	1951.2	1913.2	1957.6	1955.5	1911.1	1871.0	1820.3	1710.5	1714.7
47.5°	5327.9	2937.4	1871.0	1845.7	1892.1	1919.6	1868.9	1775.9	1704.2	1626.1	1607.1
50°	5414.4	2964.9	1833.0	1780.2	1799.2	1864.7	1801.3	1712.6	1642.9	1573.3	1583.8
52.5°	5490.5	3017.7	1759.0	1680.9	1714.7	1786.5	1752.7	1645.1	1569.1	1512.0	1495.1
55°	5828.4	3135.9	1634.5	1533.1	1613.4	1704.2	1685.2	1554.3	1471.9	1442.3	1438.1
56°	5881.2	3140.1	1569.1	1482.4	1556.4	1676.7	1653.5	1514.1	1440.2	1393.7	1395.9
57.5°	5889.6	3089.5	1476.1	1436.0	1499.3	1636.6	1607.1	1482.4	1381.1	1338.9	1326.2
60°	5182.2	2411.6	1360.0	1334.6	1408.5	1514.1	1503.5	1395.9	1281.9	1233.2	1256.5
62.5°	3533.0	1767.5	1269.2	1264.9	1303.0	1406.4	1379.0	1281.9	1186.8	1155.1	1140.3
65°	2056.8	1341.0	1180.4	1163.5	1195.2	1250.1	1269.2	1167.8	1068.6	1047.4	1041.1
67.5°	1214.2	1108.7	1066.4	1039.0	1028.4	1062.2	1077.0	1017.9	918.6	889.0	914.4
70°	1015.8	986.2	988.3	941.8	916.5	893.2	880.6	827.8	745.5	707.4	696.9
72.5°	876.4	863.7	855.2	813.0	789.8	737.0	682.1	629.3	568.1	536.4	538.5
75°	669.4	665.2	669.4	648.3	608.2	565.9	515.3	447.7	401.2	361.1	369.5
77.5°	399.1	411.8	418.1	409.7	392.7	354.7	323.1	278.7	234.4	202.8	198.5
80°	274.5	285.1	295.6	285.1	268.2	240.8	207.0	173.2	141.5	124.6	120.3
82.5°	209.1	219.6	226.0	215.4	194.3	164.8	141.5	118.2	92.9	76.0	71.8
85°	76.0	86.6	84.4	101.3	109.8	105.5	90.8	69.7	52.8	38.0	35.9
87.5°	21.1	19.0	21.1	21.1	21.1	19.0	16.9	16.9	16.9	10.6	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)