

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: P528630

Luminaire Tested: **GALN-SA3D-727-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528630
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-727-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 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: 16199 lumens
Efficiency: N/A
Efficacy: 88.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

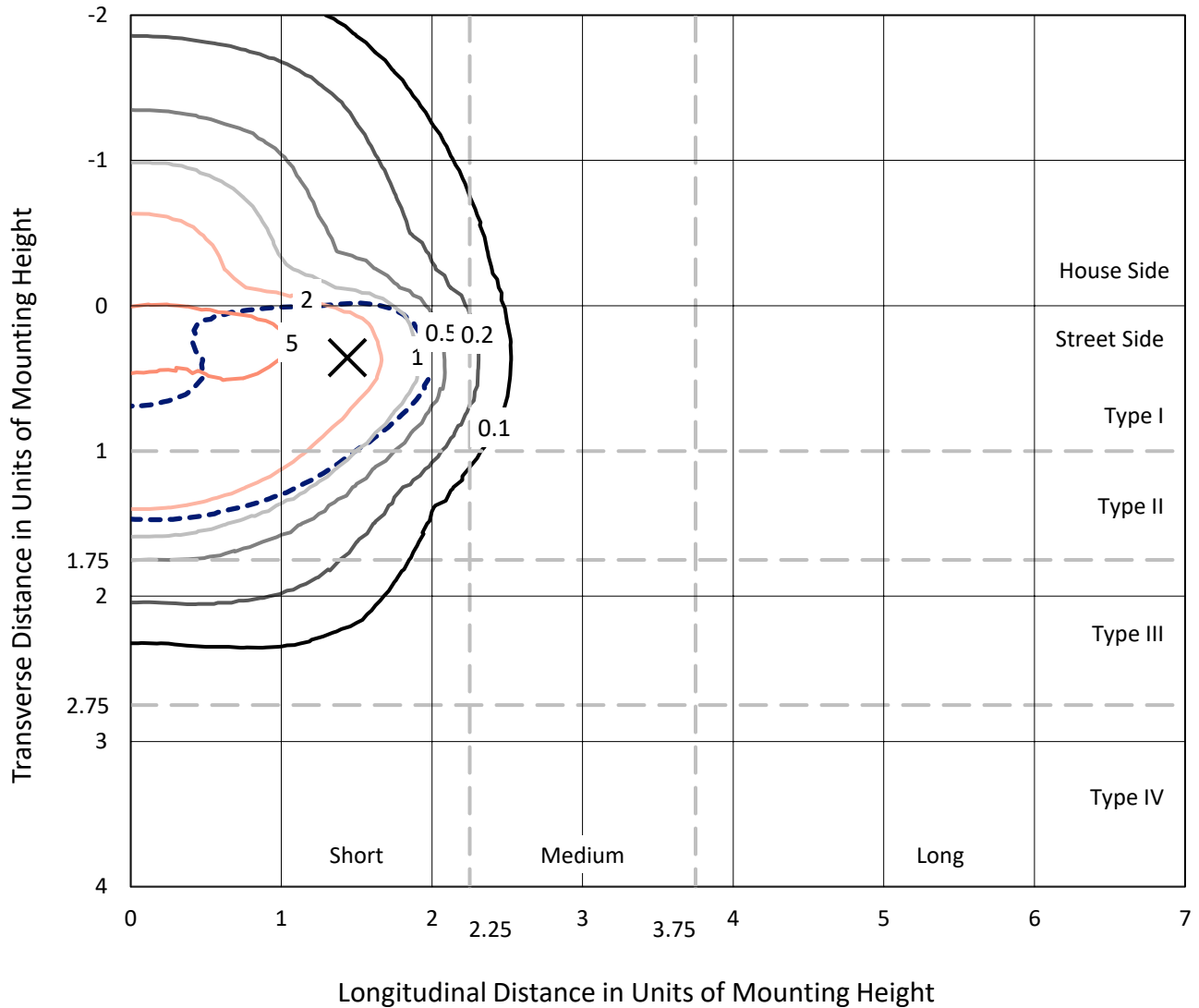
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

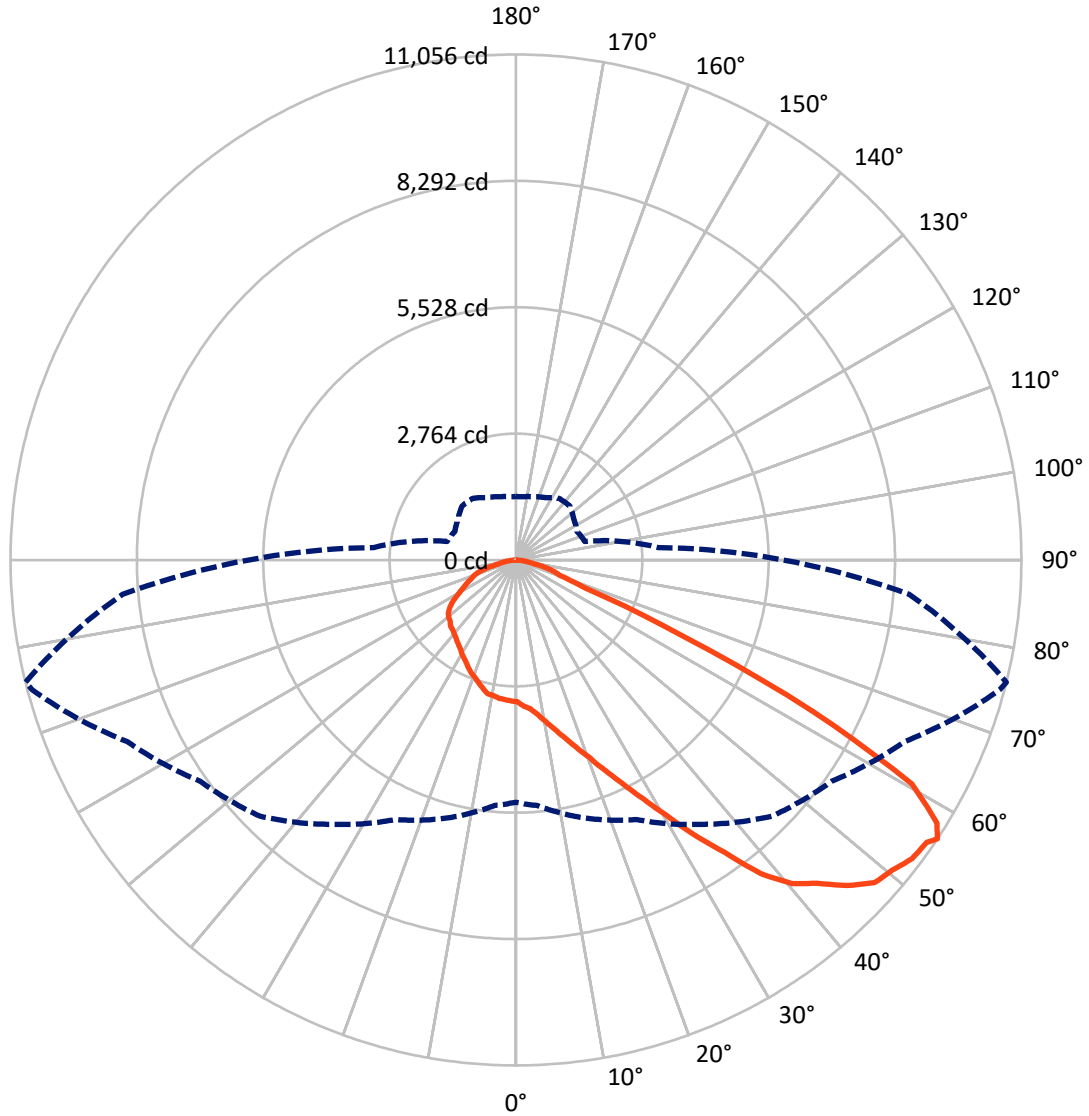
✕ Max cd
 - - - 1/2 Max cd



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	4355.4	0.0	4355.4
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	11843.6	0.0	11843.6
	% Fixture	73.1	0.0	73.1
Total	Lumens	16199.0	0.0	16199.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	307.4	1.9
10°-20°	965.6	6.0
20°-30°	1688.6	10.4
30°-40°	2643.9	16.3
40°-50°	3846.1	23.7
50°-60°	4227.1	26.1
60°-70°	1886.8	11.6
70°-80°	545.0	3.4
80°-90°	88.4	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°	16199.0	100.0
0°-180°	16199.0	100.0

Coefficient of Utilization



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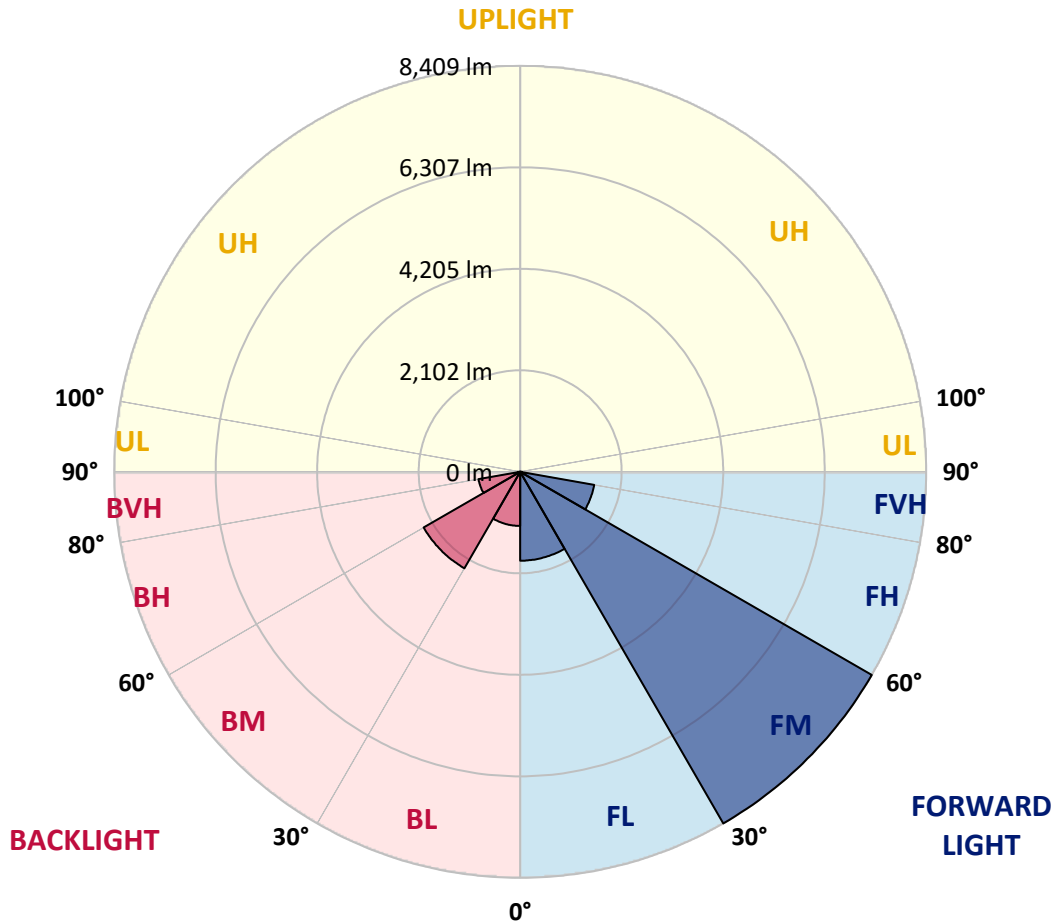
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1840.8	11.4			
FM (30°-60°)	8409.2	51.9			
FH (60°-80°)	1555.5	9.6			G1/1800
FVH (80°-90°)	38.1	0.2			G1/100
BL (0°-30°)	1120.7	6.9	B3/2500		
BM (30°-60°)	2308.0	14.2	B2/2500		
BH (60°-80°)	876.3	5.4	B2/1000		G2/1000
BVH (80°-90°)	50.3	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°	3099.5	3099.5	3099.5	3099.5	3099.5	3099.5	3099.5	3099.5	3099.5	3099.5	3099.5
2.5°	3414.5	3359.9	3355.7	3341.0	3349.4	3311.6	3271.7	3219.2	3164.6	3198.2	3118.4
5°	3653.8	3580.4	3609.7	3559.4	3565.7	3515.3	3433.4	3372.5	3305.3	3265.4	3208.7
7.5°	3737.8	3744.1	3765.1	3756.7	3714.7	3714.7	3660.1	3553.1	3435.5	3412.4	3317.9
10°	3851.2	3853.3	3830.2	3836.5	3895.3	3868.0	3819.7	3773.5	3622.3	3595.0	3427.1
12.5°	3891.1	3853.3	3891.1	3924.7	3994.0	4031.8	4021.3	3987.7	3826.0	3807.1	3561.5
15°	3897.4	3874.3	3905.8	3981.4	4042.3	4201.9	4281.7	4258.6	4044.4	4046.5	3712.6
17.5°	3868.0	3899.5	3912.1	3977.2	4117.9	4267.0	4498.0	4529.5	4353.1	4325.8	3903.7
20°	3907.9	3884.8	3901.6	3960.4	4147.3	4380.4	4682.8	4890.7	4642.9	4624.0	4101.1
22.5°	4061.2	4029.7	4025.5	4063.3	4197.7	4439.2	4878.1	5251.9	4995.7	5006.2	4346.8
25°	4180.9	4197.7	4183.0	4180.9	4264.9	4527.4	5136.4	5682.4	5474.5	5413.6	4636.6
27.5°	4386.7	4426.6	4397.2	4437.1	4418.2	4659.7	5321.2	6159.0	5991.0	5909.2	4899.1
30°	4672.3	4693.3	4666.0	4666.0	4609.3	4844.5	5489.2	6656.7	6587.4	6476.1	5207.8
32.5°	5048.2	5079.7	5025.1	4993.6	4985.2	5119.6	5791.6	7148.1	7265.7	7171.2	5617.3
35°	5545.9	5527.0	5461.9	5432.5	5319.1	5541.7	6240.9	7713.0	8021.7	7853.7	6112.8
37.5°	5984.8	5955.4	5951.2	5787.4	5814.7	5997.3	6623.1	8141.4	8754.5	8706.2	6635.7
40°	6394.2	6421.5	6465.6	6373.2	6331.2	6532.8	7068.3	8468.9	9323.6	9304.7	7038.9
42.5°	6833.1	6807.9	6885.6	6807.9	6744.9	7030.5	7551.3	8695.7	9823.4	9668.0	7461.0
45°	7469.4	7389.6	7416.9	7423.2	7377.0	7482.0	7750.8	8859.5	10174.1	10157.3	7769.7
47.5°	8000.7	8002.8	7956.6	7920.9	7780.2	7885.2	7973.4	8962.4	10577.3	10550.0	7889.4
50°	8198.1	8170.8	8305.2	8382.9	8391.2	8177.1	8147.7	9019.1	10789.3	10669.7	8009.1
52.5°	7488.3	7513.5	7725.6	8187.6	8454.2	8477.3	8351.4	9136.7	10875.4	10850.2	8105.7
55°	6026.7	6148.5	6497.1	7030.5	7662.6	8357.7	8571.8	9258.5	10921.6	10900.6	8534.0
56°	5298.1	5392.6	5846.2	6264.0	7057.8	7923.0	8433.2	9388.7	10957.3	11056.0	8634.8
57.5°	4264.9	4374.1	4699.6	5174.2	6110.7	7095.6	8051.1	9229.1	10818.7	10856.5	8708.3
60°	2666.9	2677.4	3068.0	3380.9	4040.2	5002.0	6144.3	8030.1	10012.4	9957.8	7822.2
62.5°	1749.2	1751.3	2106.2	2362.4	2662.7	2883.2	3616.0	5325.4	7387.5	7290.9	5569.0
65°	1228.4	1255.7	1530.8	1873.1	1994.9	1879.4	1856.3	2807.6	4126.3	3987.7	2992.4
67.5°	898.8	900.9	1144.5	1511.9	1688.3	1430.0	1161.3	1371.2	1633.7	1629.5	1385.9
70°	594.3	619.5	806.4	1129.8	1331.3	1148.7	949.2	980.7	1039.5	1039.5	1031.1
72.5°	346.5	369.6	493.5	716.1	747.6	718.2	751.8	840.0	877.8	875.7	865.2
75°	197.4	207.9	235.2	298.2	371.7	438.9	552.3	636.3	674.1	697.2	669.9
77.5°	115.5	121.8	138.6	170.1	193.2	237.3	300.3	359.1	409.5	403.2	407.4
80°	60.9	60.9	77.7	100.8	134.4	168.0	199.5	233.1	260.4	266.7	273.0
82.5°	35.7	37.8	50.4	73.5	96.6	119.7	153.3	176.4	201.6	203.7	207.9
85°	18.9	21.0	31.5	48.3	65.1	73.5	75.6	71.4	77.7	73.5	84.0
87.5°	6.3	6.3	10.5	8.4	8.4	10.5	12.6	12.6	16.8	16.8	16.8
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°	3099.5	3099.5	3099.5	3099.5	3099.5	3099.5	3099.5	3099.5	3099.5	3099.5	3099.5
2.5°	3116.3	3116.3	3080.6	3013.4	3002.9	2975.6	2950.4	2948.3	2929.4	2912.6	2904.2
5°	3175.1	3110.0	3057.5	2996.6	2925.2	2891.6	2853.8	2811.8	2795.0	2811.8	2809.7
7.5°	3242.3	3187.7	3030.2	2916.8	2834.9	2801.3	2759.3	2715.2	2719.4	2719.4	2690.0
10°	3307.4	3233.9	2981.9	2837.0	2717.3	2692.1	2669.0	2685.8	2706.8	2711.0	2692.1
12.5°	3416.6	3250.7	2958.8	2757.2	2681.6	2627.0	2641.7	2687.9	2732.0	2719.4	2734.1
15°	3498.5	3265.4	2853.8	2675.3	2580.8	2606.0	2658.5	2690.0	2763.5	2755.1	2769.8
17.5°	3578.3	3273.8	2750.9	2566.1	2526.2	2595.5	2635.4	2725.7	2748.8	2799.2	2818.1
20°	3742.0	3290.6	2645.9	2498.9	2486.3	2566.1	2635.4	2677.4	2727.8	2771.9	2771.9
22.5°	3826.0	3282.2	2576.6	2410.7	2450.6	2501.0	2564.0	2635.4	2635.4	2677.4	2679.5
25°	3931.0	3248.6	2467.4	2368.7	2398.1	2446.4	2517.8	2492.6	2519.9	2519.9	2553.5
27.5°	4050.7	3177.2	2372.9	2293.1	2351.9	2404.4	2414.9	2398.1	2366.6	2362.4	2349.8
30°	4147.3	3089.0	2303.6	2267.9	2316.2	2345.6	2312.0	2276.3	2221.7	2217.5	2188.1
32.5°	4279.6	2979.8	2217.5	2204.9	2259.5	2261.6	2251.1	2196.5	2116.7	2083.1	2049.5
35°	4502.2	2916.8	2152.4	2171.3	2188.1	2181.8	2162.9	2104.1	2024.3	2009.6	1997.0
37.5°	4666.0	2870.6	2085.2	2108.3	2123.0	2131.4	2074.7	2009.6	2011.7	1982.3	1973.9
40°	4850.8	2841.2	2030.6	2041.1	2043.2	2070.5	2001.2	1969.7	1984.4	1965.5	1978.1
42.5°	5088.1	2849.6	1973.9	1965.5	2005.4	1994.9	1961.3	1919.3	1927.7	1871.0	1879.4
45°	5214.1	2906.3	1940.3	1902.5	1946.6	1944.5	1900.4	1860.5	1810.1	1700.9	1705.1
47.5°	5298.1	2921.0	1860.5	1835.3	1881.5	1908.8	1858.4	1766.0	1694.6	1616.9	1598.0
50°	5384.2	2948.3	1822.7	1770.2	1789.1	1854.2	1791.2	1703.0	1633.7	1564.4	1574.9
52.5°	5459.8	3000.8	1749.2	1671.5	1705.1	1776.5	1742.9	1635.8	1560.2	1503.5	1486.7
55°	5795.8	3118.4	1625.3	1524.5	1604.3	1694.6	1675.7	1545.5	1463.6	1434.2	1430.0
56°	5848.3	3122.6	1560.2	1474.1	1547.6	1667.3	1644.2	1505.6	1432.1	1385.9	1388.0
57.5°	5856.7	3072.2	1467.8	1427.9	1490.9	1627.4	1598.0	1474.1	1373.3	1331.3	1318.7
60°	5153.2	2398.1	1352.3	1327.1	1400.6	1505.6	1495.1	1388.0	1274.6	1226.3	1249.4
62.5°	3513.2	1757.6	1262.0	1257.8	1295.6	1398.5	1371.2	1274.6	1180.2	1148.7	1134.0
65°	2045.3	1333.4	1173.9	1157.1	1188.6	1243.1	1262.0	1161.3	1062.6	1041.6	1035.3
67.5°	1207.4	1102.5	1060.5	1033.2	1022.7	1056.3	1071.0	1012.2	913.5	884.1	909.3
70°	1010.1	980.7	982.8	936.6	911.4	888.3	875.7	823.2	741.3	703.5	693.0
72.5°	871.5	858.9	850.5	808.5	785.4	732.9	678.3	625.8	564.9	533.4	535.5
75°	665.7	661.5	665.7	644.7	604.8	562.8	512.4	445.2	399.0	359.1	367.5
77.5°	396.9	409.5	415.8	407.4	390.6	352.8	321.3	277.2	233.1	201.6	197.4
80°	273.0	283.5	294.0	283.5	266.7	239.4	205.8	172.2	140.7	123.9	119.7
82.5°	207.9	218.4	224.7	214.2	193.2	163.8	140.7	117.6	92.4	75.6	71.4
85°	75.6	86.1	84.0	100.8	109.2	105.0	90.3	69.3	52.5	37.8	35.7
87.5°	21.0	18.9	21.0	21.0	21.0	18.9	16.8	16.8	16.8	10.5	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)