

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: P383605

Luminaire Tested: **GLEON-SA8D-735-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383605
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA8D-735-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 57524 lumens
Efficiency: N/A
Efficacy: 112.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 511
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

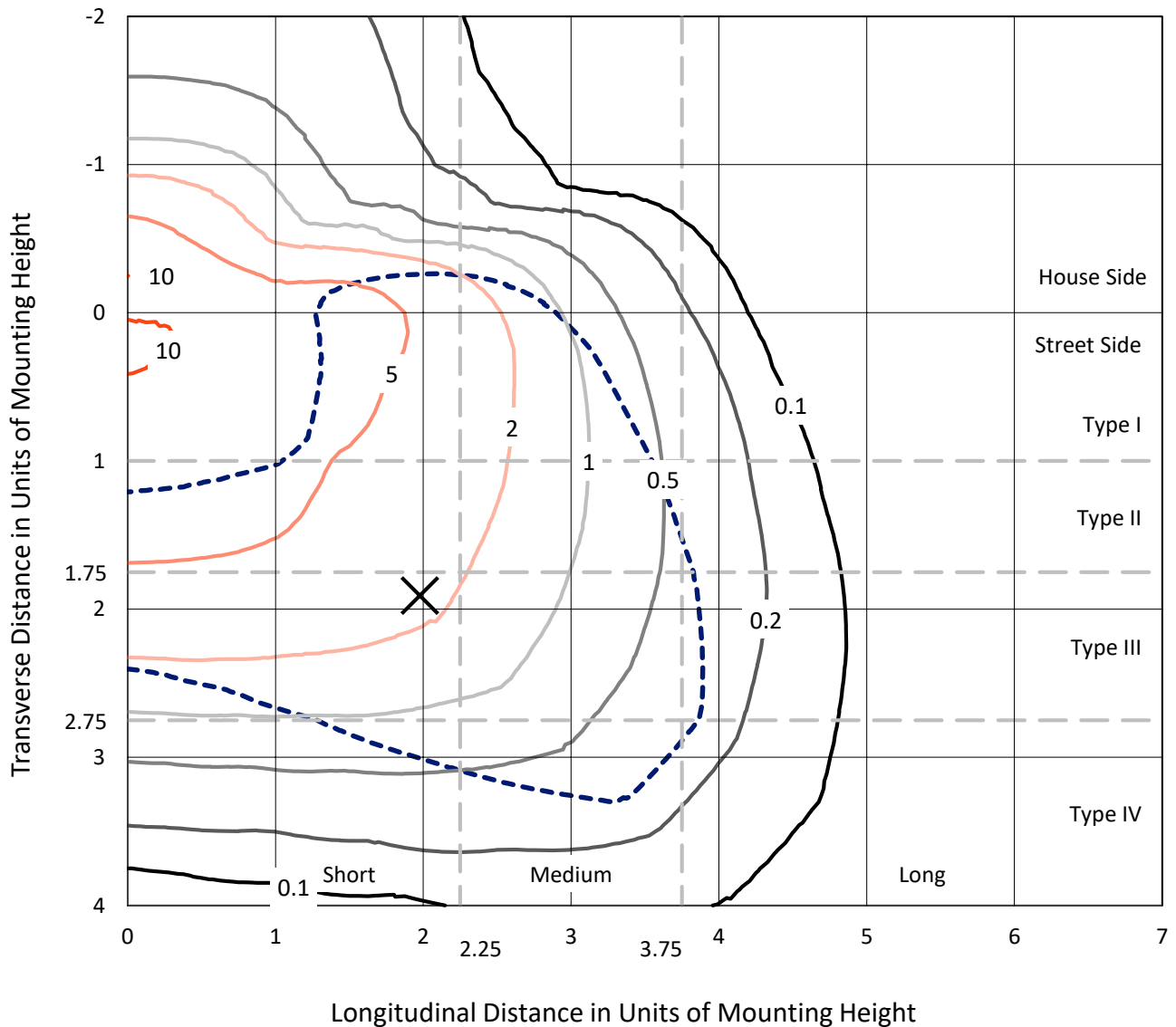




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Iso-Footcandle Lines of Horizontal Illumination

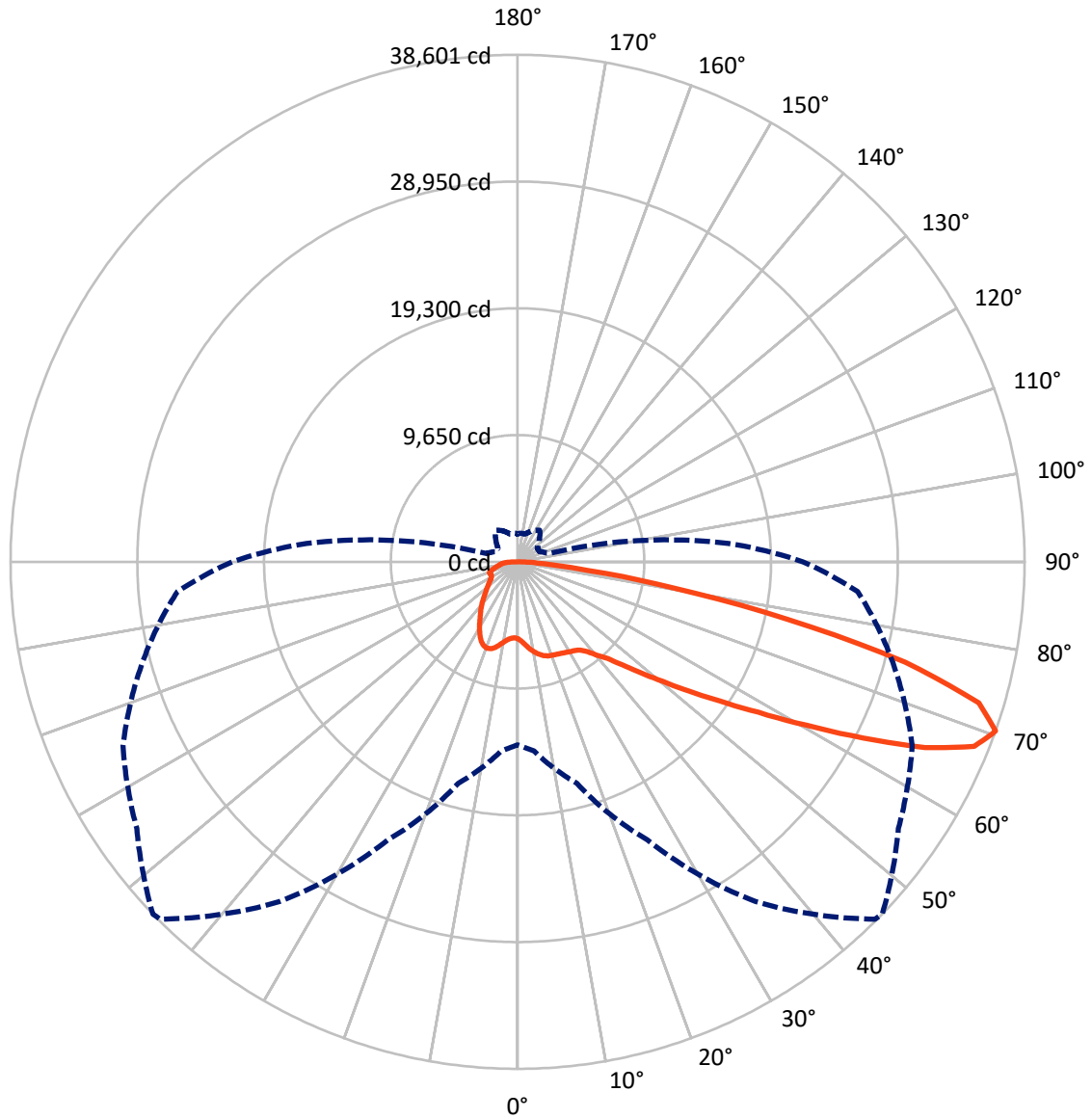
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13184.3	0.0	13184.3
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	44339.7	0.0	44339.7
	% Fixture	77.1	0.0	77.1
Total	Lumens	57524.0	0.0	57524.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	597.4	1.0
10°-20°	1990.5	3.5
20°-30°	3318.9	5.8
30°-40°	4709.7	8.2
40°-50°	6927.8	12.0
50°-60°	11732.2	20.4
60°-70°	16653.7	29.0
70°-80°	10117.2	17.6
80°-90°	1476.5	2.6
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°	57524.0	100.0
0°-180°	57524.0	100.0

Coefficient of Utilization

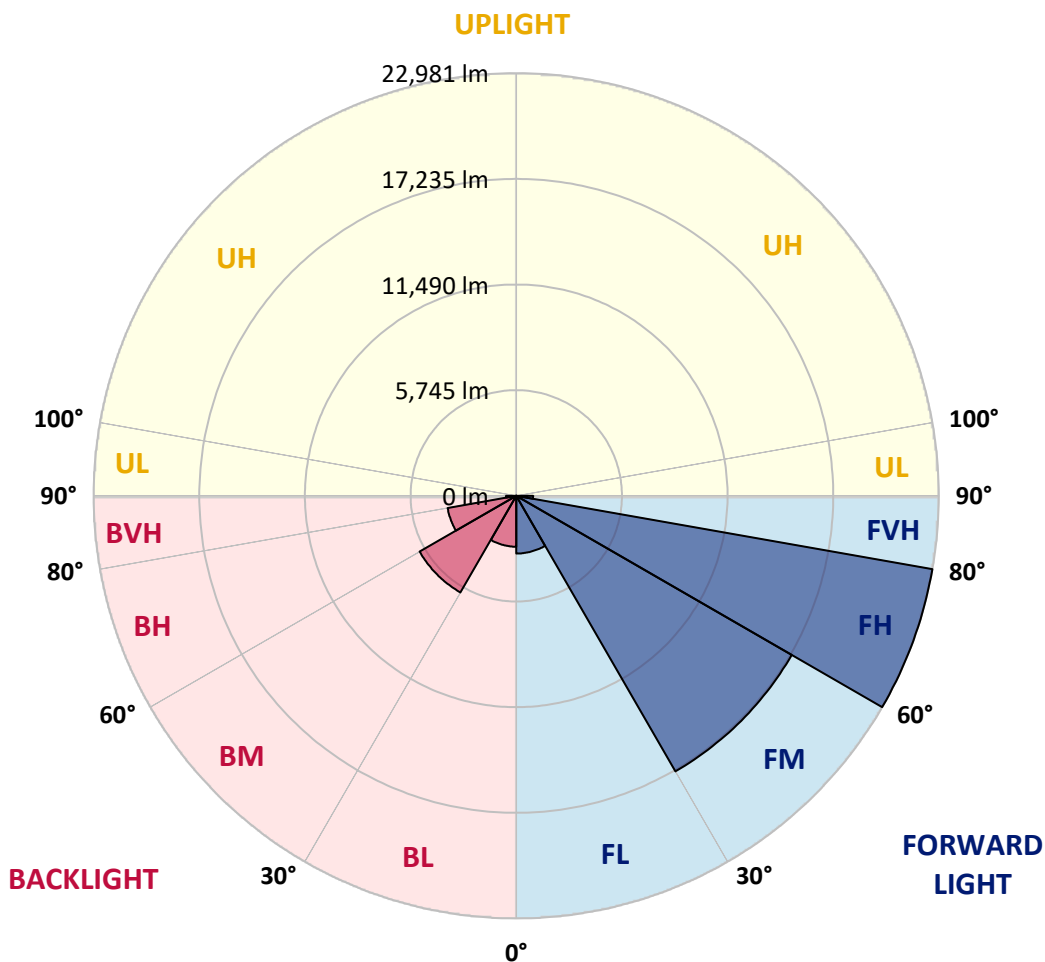


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3138.8	5.5			
FM (30°-60°)	17300.7	30.1			
FH (60°-80°)	22980.5	39.9			G5
FVH (80°-90°)	919.7	1.6			G5
BL (0°-30°)	2768.1	4.8	B4/5000		
BM (30°-60°)	6069.1	10.6	B4/8500		
BH (60°-80°)	3790.4	6.6	B4/5000		G4/5000
BVH (80°-90°)	556.8	1.0			G4/750
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	5860.6	5860.6	5860.6	5860.6	5860.6	5860.6	5860.6	5860.6	5860.6	5860.6	5860.6
2.5°	6153.9	6157.8	6165.7	6146.0	6090.9	6075.2	6069.2	6012.1	5974.8	5919.6	5872.4
5°	6646.0	6649.9	6638.2	6583.1	6461.0	6370.5	6362.6	6232.6	6114.5	5988.5	5894.0
7.5°	7159.9	7165.7	7128.4	7024.1	6852.7	6695.2	6685.4	6508.3	6329.1	6138.2	5996.4
10°	7614.6	7591.0	7530.0	7384.3	7181.5	6988.6	6980.7	6795.6	6588.9	6358.7	6169.6
12.5°	7917.8	7898.1	7819.3	7642.1	7419.7	7242.5	7226.8	7055.5	6854.7	6602.7	6376.4
15°	8085.1	8098.9	7992.6	7791.7	7575.3	7425.6	7411.9	7289.8	7110.6	6856.7	6596.8
17.5°	8106.8	8118.5	8016.2	7817.4	7640.2	7537.8	7531.9	7451.2	7321.3	7077.2	6805.5
20°	7980.8	7988.7	7904.0	7740.6	7624.4	7593.0	7591.0	7555.5	7459.1	7242.5	6978.8
22.5°	7797.7	7803.6	7742.6	7624.4	7585.0	7634.3	7648.1	7634.3	7565.4	7362.6	7114.6
25°	7752.4	7748.4	7685.5	7565.4	7598.8	7703.2	7720.9	7726.8	7679.6	7502.4	7287.8
27.5°	7970.9	7957.2	7837.0	7644.1	7665.8	7791.7	7815.4	7872.5	7843.0	7687.4	7484.7
30°	8602.8	8579.3	8333.2	7943.4	7837.0	7902.0	7931.6	8022.1	8028.0	7898.1	7746.5
32.5°	9669.8	9640.3	9199.3	8502.4	8126.4	8014.2	8041.8	8177.6	8250.4	8150.1	7986.7
35°	11018.3	10984.9	10406.1	9453.3	8610.8	8228.8	8248.5	8356.8	8502.4	8360.7	8144.1
37.5°	12424.0	12343.2	11786.1	10571.5	9380.5	8687.5	8687.5	8701.3	8770.1	8474.8	8329.2
40°	13821.7	13741.0	13237.0	11886.5	10376.6	9410.0	9364.7	9059.6	9004.4	8750.5	8701.3
42.5°	15121.0	15097.3	14800.1	13372.8	11546.0	10120.6	10057.6	9539.9	9551.7	9394.2	9396.2
45°	16502.9	16502.9	16260.7	14872.9	12908.2	11262.4	11199.4	10437.6	10555.7	10482.9	10658.1
47.5°	17630.9	17666.3	17632.9	16435.9	14492.9	12713.3	12599.2	11681.8	12012.5	12262.5	12772.4
50°	18782.6	18837.7	18843.6	18150.6	16408.4	14437.9	14307.9	13333.4	14071.7	14788.2	15790.3
52.5°	20453.9	20578.0	20083.8	19861.3	18755.0	16485.2	16357.2	15457.5	16689.9	17695.9	19422.4
55°	22003.2	21894.9	21542.6	21680.4	21267.0	18816.1	18719.5	17930.1	19607.4	20914.5	23156.8
57.5°	22841.8	22834.0	23188.4	23778.9	23975.8	21690.2	21609.5	20841.7	22897.0	23879.3	26662.9
60°	23826.2	23840.0	24718.0	26058.6	26869.7	25269.2	25233.8	24651.0	26092.0	26647.2	29413.1
62.5°	23964.0	24212.0	25723.9	28031.1	29578.4	29450.5	29529.2	28082.3	28950.5	28856.0	31466.4
65°	22379.2	22706.0	25442.4	28627.6	32271.5	34023.6	34096.4	31533.3	31204.5	30743.9	32200.6
67.5°	19131.0	19615.3	22587.9	27330.3	33159.4	37403.7	37506.1	34208.7	33074.7	31383.7	30432.8
70°	13922.1	14459.5	17451.8	23341.9	31576.6	38484.5	38600.6	35391.7	33145.6	29562.7	25979.8
72.5°	8409.9	8831.2	11297.9	17184.1	26651.1	36515.8	36722.5	33891.7	30261.6	25040.8	19184.2
75°	3693.1	3968.8	5462.9	9902.2	19079.9	30212.3	30470.3	29009.5	24588.0	18197.9	11339.3
77.5°	1572.9	1651.6	2240.3	4301.4	10786.0	20644.9	20999.2	21196.1	16682.1	9902.2	4791.6
80°	980.4	1011.8	1267.7	1946.9	5047.5	11595.2	11977.1	12471.2	8284.0	3639.9	1673.3
82.5°	596.5	632.0	842.6	1177.2	2628.1	5256.2	5439.3	5787.7	3214.8	1572.9	866.2
85°	358.3	383.9	515.8	744.1	1496.2	2067.0	2065.1	2283.6	1513.9	1011.8	456.7
87.5°	171.3	191.0	275.6	385.8	754.0	775.6	726.4	822.8	919.3	663.4	230.4
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°	5860.6	5860.6	5860.6	5860.6	5860.6	5860.6	5860.6	5860.6	5860.6	5860.6	5860.6
2.5°	5856.6	5848.7	5823.2	5803.4	5799.5	5787.7	5777.9	5783.8	5791.7	5793.7	5793.7
5°	5854.7	5833.0	5799.5	5785.7	5803.4	5827.1	5856.6	5896.0	5919.6	5937.3	5949.1
7.5°	5949.1	5907.8	5870.4	5862.5	5898.0	5961.0	6027.9	6110.6	6167.7	6207.1	6214.9
10°	6106.7	6055.4	6018.1	6025.9	6089.0	6179.5	6274.0	6380.3	6466.9	6520.1	6524.0
12.5°	6287.8	6238.6	6203.1	6236.6	6341.0	6451.2	6549.6	6642.1	6720.8	6774.0	6774.0
15°	6496.4	6461.0	6419.7	6496.4	6638.2	6736.6	6777.9	6823.2	6866.5	6905.9	6898.0
17.5°	6697.3	6663.7	6642.1	6732.7	6880.3	6925.6	6898.0	6864.6	6864.6	6886.2	6890.2
20°	6870.4	6840.9	6854.7	6943.3	7020.0	6972.8	6870.4	6764.2	6720.8	6732.7	6744.5
22.5°	7022.1	7008.3	7049.6	7090.9	7035.8	6870.4	6681.5	6537.8	6484.6	6480.7	6484.6
25°	7199.2	7197.2	7248.5	7173.7	6929.5	6624.4	6370.5	6230.7	6201.1	6224.8	6264.1
27.5°	7419.7	7441.4	7467.0	7193.3	6713.0	6252.4	5994.4	5898.0	5927.5	5984.6	6022.0
30°	7701.2	7760.3	7705.2	7144.1	6402.0	5827.1	5581.0	5553.4	5634.2	5714.9	5754.3
32.5°	7974.9	8067.4	7933.5	7016.1	6000.4	5376.3	5185.4	5177.4	5275.9	5354.6	5409.8
35°	8195.4	8378.4	8104.8	6762.2	5535.7	4961.0	4821.1	4768.0	4803.4	4895.9	4958.9
37.5°	8482.8	8787.9	8222.9	6374.4	5031.8	4618.3	4454.9	4332.9	4301.4	4338.9	4370.4
40°	9008.3	9412.0	8278.0	5833.0	4539.6	4275.8	4110.5	3931.3	3807.3	3716.8	3718.7
42.5°	9866.7	10224.9	8242.6	5175.5	4084.8	3941.2	3754.1	3547.4	3346.7	3141.9	3126.2
45°	11260.5	11433.7	8136.3	4478.6	3685.2	3590.7	3415.5	3208.8	2941.1	2708.8	2687.1
47.5°	13491.0	13107.1	7970.9	3870.3	3332.9	3293.5	3132.0	2893.9	2610.4	2423.3	2407.6
50°	16532.5	15522.6	7890.2	3386.0	3021.8	3033.7	2901.8	2649.8	2382.1	2244.2	2228.4
52.5°	20170.4	18335.7	8045.8	3012.0	2771.8	2813.2	2714.7	2478.5	2254.1	2145.8	2130.1
55°	23944.3	21249.3	8213.1	2740.3	2535.6	2616.3	2582.8	2387.9	2185.1	2084.8	2071.0
57.5°	27174.7	23424.6	7878.4	2519.8	2325.0	2450.9	2480.4	2330.8	2149.7	2059.2	2043.4
60°	29208.4	24300.6	7000.4	2313.1	2157.6	2319.0	2421.4	2315.1	2163.5	2155.6	2143.9
62.5°	30173.0	24223.8	5683.4	2149.7	2053.2	2262.0	2464.7	2403.7	2321.0	2391.8	2397.8
65°	29739.8	23066.2	4232.5	2041.5	1978.4	2283.6	2594.6	2571.0	2366.3	2437.1	2447.0
67.5°	26889.3	20304.3	3134.0	1946.9	1895.8	2344.6	2830.9	2626.1	2277.7	2328.9	2297.4
70°	21733.6	16097.3	2417.5	1840.6	1811.1	2336.8	2937.2	2592.7	2181.2	2193.0	2108.4
72.5°	14987.1	10977.0	1966.7	1742.2	1689.1	2130.1	2862.4	2510.0	2100.5	2010.0	1897.7
75°	8150.1	5892.0	1671.4	1639.9	1474.5	1870.2	2724.6	2450.9	2027.7	1907.6	1844.6
77.5°	3206.9	2445.0	1450.9	1500.1	1289.4	1651.6	2571.0	2338.7	1927.3	1769.8	1738.3
80°	1309.1	1248.1	1202.8	1297.3	1108.4	1444.9	2386.0	2206.8	1807.2	1641.9	1578.8
82.5°	742.2	775.6	935.1	1023.7	899.7	1330.8	2297.4	2100.5	1663.5	1470.5	1395.7
85°	380.0	454.8	651.6	734.3	661.5	1131.9	2116.3	1838.7	1334.7	1126.1	1131.9
87.5°	183.0	253.9	411.5	460.7	429.2	818.9	1580.8	1332.8	1039.4	822.8	797.3
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)