

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: P383539

Luminaire Tested: **GLEON-SA8B-735-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383539
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA8B-735-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41867.5 lumens
Efficiency: N/A
Efficacy: 125.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

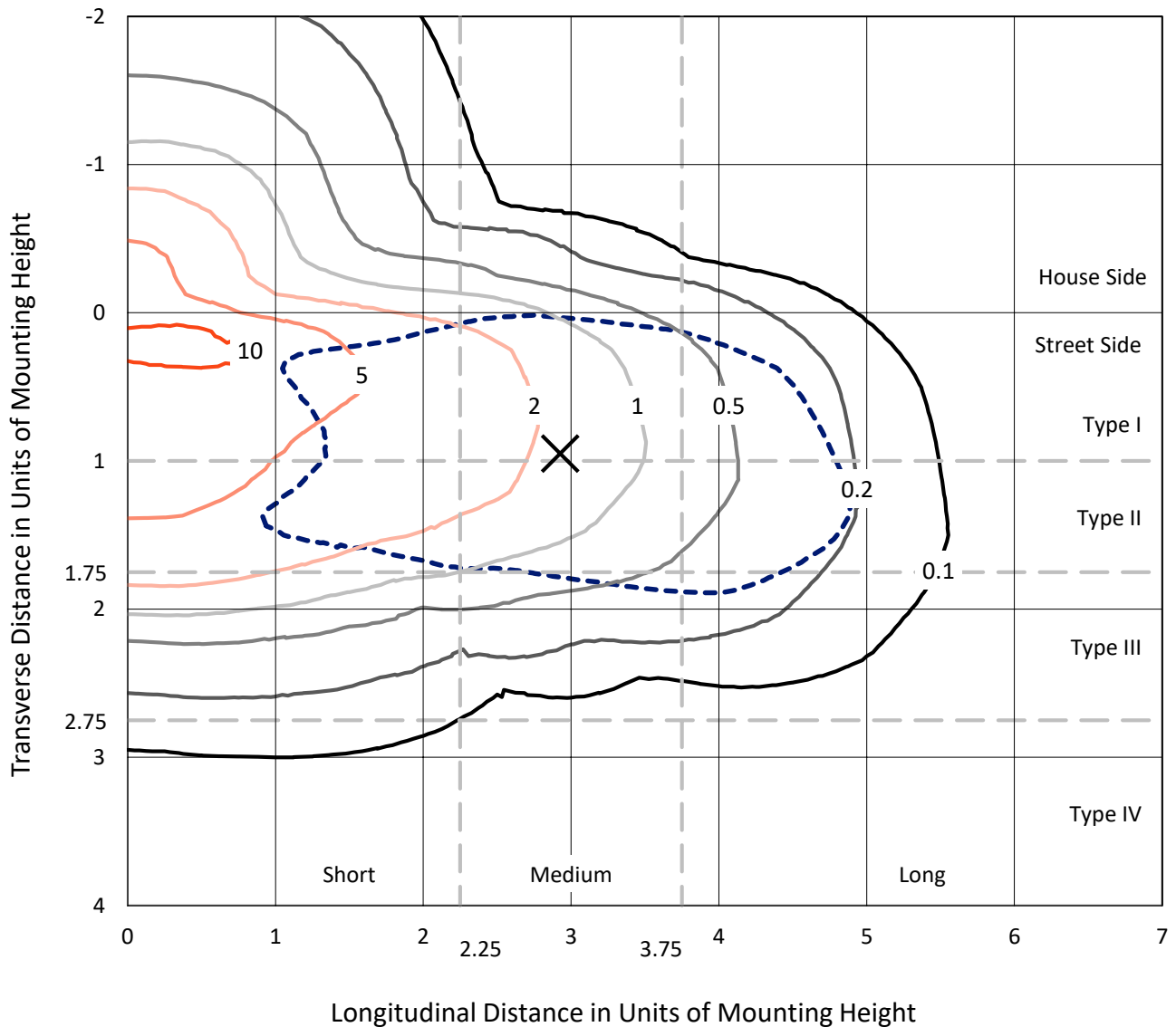
Input Watts (W): 334
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

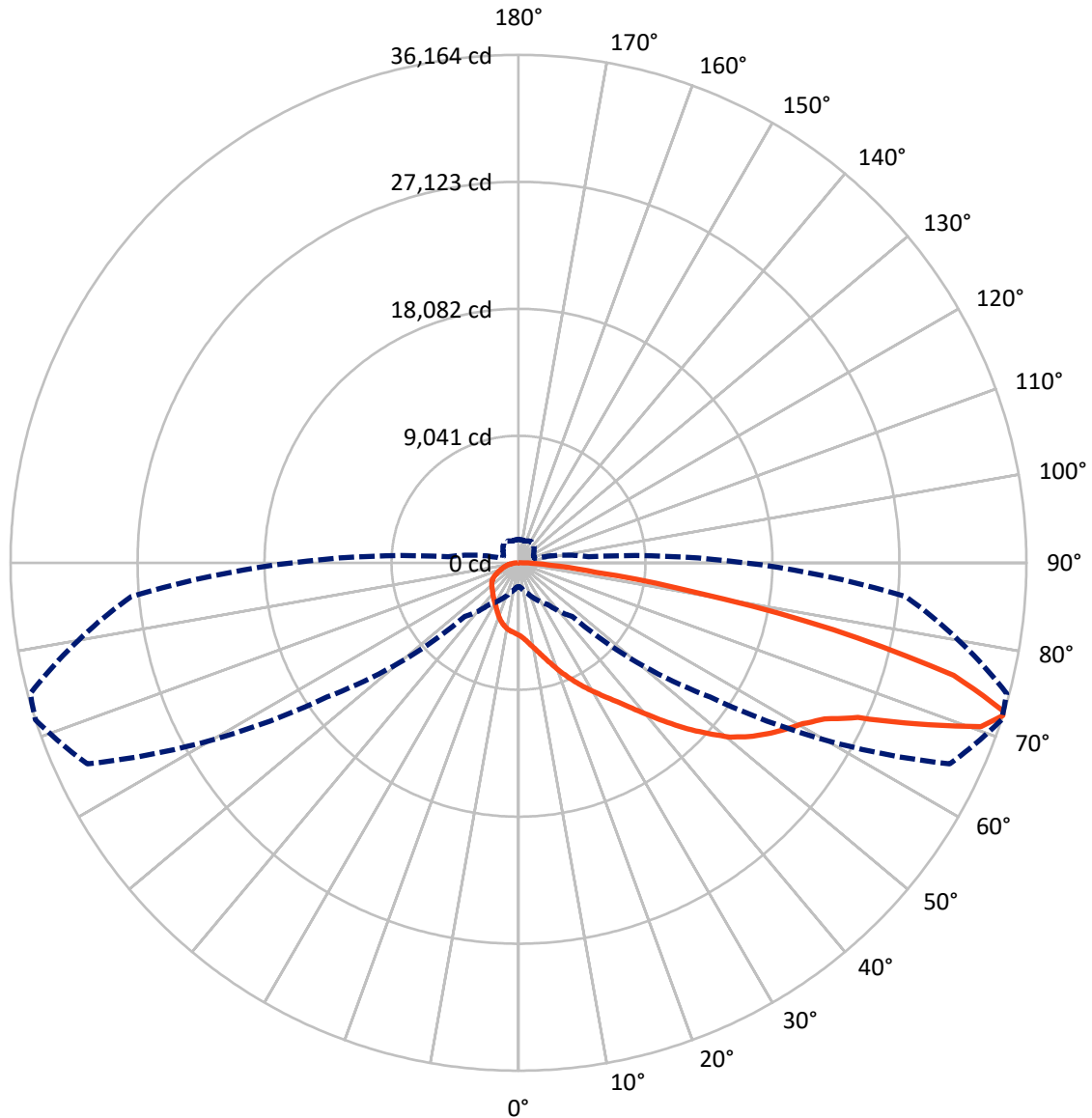
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.4 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7766.7	0.0	7766.7
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	34100.8	0.0	34100.8
	% Fixture	81.4	0.0	81.4
Total	Lumens	41867.5	0.0	41867.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	516.1	1.2
10°-20°	1667.9	4.0
20°-30°	2922.6	7.0
30°-40°	4333.3	10.4
40°-50°	6337.8	15.1
50°-60°	8720.8	20.8
60°-70°	9708.9	23.2
70°-80°	6578.7	15.7
80°-90°	1081.3	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°	41867.5	100.0
0°-180°	41867.5	100.0

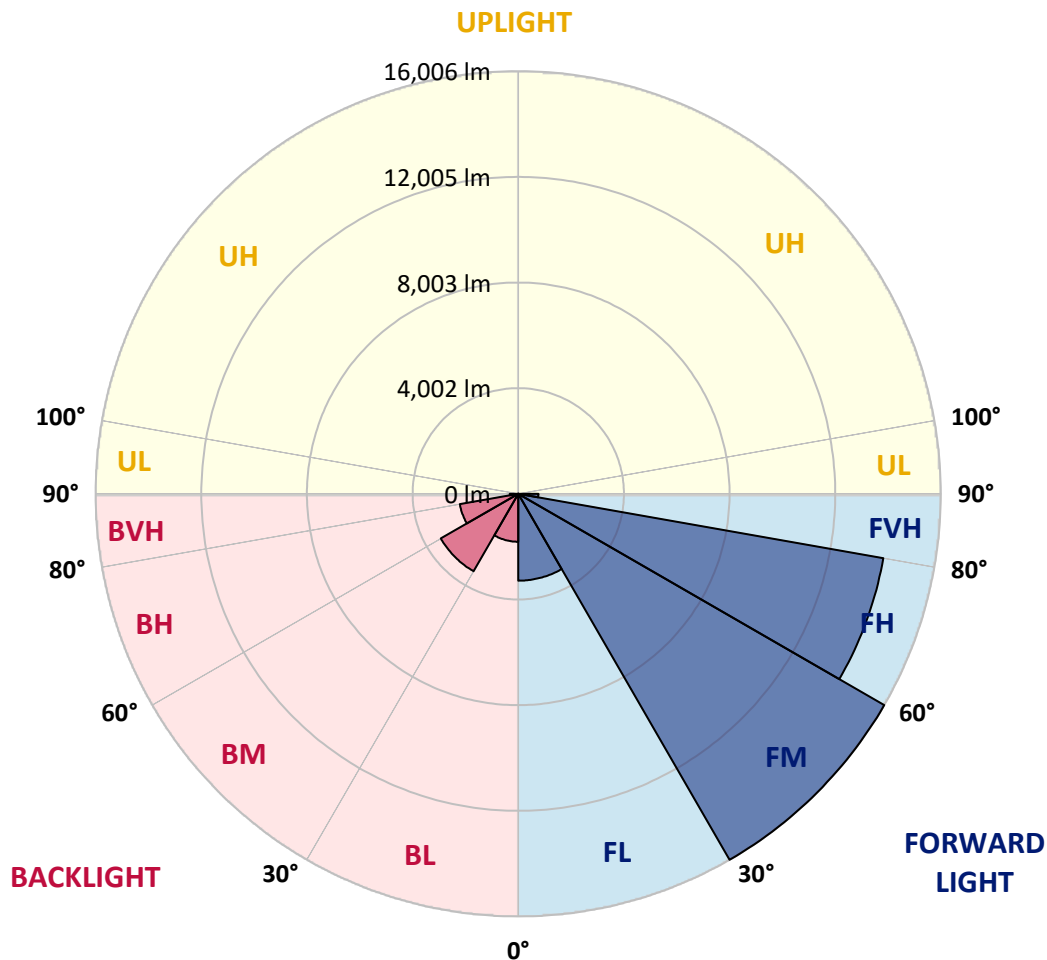


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3291.0	7.9			
FM (30°-60°)	16006.5	38.2			
FH (60°-80°)	14040.6	33.5			G5
FVH (80°-90°)	762.7	1.8			G5
BL (0°-30°)	1815.6	4.3	B3/2500		
BM (30°-60°)	3385.5	8.1	B3/5000		
BH (60°-80°)	2247.0	5.4	B3/2500		G3/2500
BVH (80°-90°)	318.6	0.8			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	5150.8	5150.8	5150.8	5150.8	5150.8	5150.8	5150.8	5150.8	5150.8	5150.8	5150.8
2.5°	5690.0	5681.3	5651.0	5651.0	5593.4	5544.4	5452.1	5390.1	5316.5	5290.6	5204.1
5°	6240.6	6243.5	6206.1	6180.1	6095.0	5991.2	5834.1	5691.4	5548.7	5491.0	5313.7
7.5°	6703.4	6697.6	6687.5	6665.9	6586.6	6479.9	6268.0	6056.1	5845.6	5759.1	5453.6
10°	7000.4	7013.3	7022.0	7032.1	6998.9	6922.5	6722.1	6464.1	6188.7	6070.5	5620.8
12.5°	7150.3	7173.4	7213.7	7282.9	7337.7	7329.0	7183.4	6909.6	6582.3	6433.8	5829.8
15°	7238.2	7268.5	7331.9	7455.9	7610.2	7698.1	7659.2	7411.2	7046.5	6863.4	6085.0
17.5°	7293.0	7317.5	7415.5	7581.3	7810.6	8044.1	8146.4	7938.8	7571.2	7362.2	6377.6
20°	7330.4	7349.3	7471.8	7666.4	7963.3	8335.3	8620.7	8568.8	8149.3	7878.3	6683.2
22.5°	7414.1	7429.9	7546.7	7742.7	8071.5	8551.5	9077.7	9155.5	8759.1	8452.0	7010.5
25°	7647.6	7647.6	7745.6	7882.6	8191.1	8738.9	9464.1	9808.5	9381.9	9024.4	7313.2
27.5°	8093.1	8088.7	8124.8	8172.4	8405.9	8929.2	9808.5	10385.2	10027.6	9637.0	7607.3
30°	8620.7	8649.5	8653.9	8630.8	8740.3	9167.1	10127.1	10993.6	10677.9	10256.9	7908.6
32.5°	9299.6	9318.5	9296.8	9220.4	9204.5	9504.4	10439.9	11630.7	11381.4	10904.1	8183.9
35°	10161.8	10125.7	10057.9	9902.3	9753.8	9955.6	10797.5	12267.9	12171.3	11686.9	8563.1
37.5°	11085.8	11087.3	11003.6	10650.5	10445.7	10532.3	11290.5	12990.2	13127.1	12618.2	9048.9
40°	11826.7	11865.7	11917.6	11453.4	11188.2	11307.8	11917.6	13827.7	14257.3	13722.4	9681.7
42.5°	12344.3	12389.0	12536.0	12244.8	11969.5	12191.5	12655.7	14721.5	15525.9	14996.8	10422.7
45°	12892.2	12916.7	13020.4	12895.0	12719.2	13219.3	13487.5	15647.0	16868.0	16354.8	11251.6
47.5°	13468.8	13494.7	13601.3	13517.8	13425.5	14179.5	14355.3	16519.1	18153.9	17846.9	12136.8
50°	14180.9	14198.2	14299.1	14147.7	14176.6	14903.1	15130.9	17319.2	19501.8	19187.6	13024.7
52.5°	15152.6	15156.8	15296.7	15159.7	15024.2	15433.6	15798.4	18073.1	20558.5	20410.0	13912.8
55°	15913.7	15959.8	16418.2	16389.4	16311.6	15915.1	16356.2	18791.1	21501.2	21571.9	14855.6
57.5°	15427.8	15608.1	16536.5	17191.0	17828.1	17113.1	17110.2	19599.9	22377.7	22712.2	15892.0
60°	13512.0	13757.1	15125.2	16576.8	18570.5	19197.6	18675.8	20587.3	23262.9	23842.4	17191.0
62.5°	9650.0	10053.6	11907.5	14225.6	17552.8	20578.6	21861.7	22154.3	24466.6	25151.4	18879.0
65°	4878.3	5184.0	6738.0	9530.3	14023.8	19676.2	25324.4	25585.3	26558.3	27166.7	21478.2
67.5°	2963.9	3079.2	3837.5	5300.7	8597.6	15326.9	26454.6	31304.1	30606.4	30929.2	25184.6
70°	2184.0	2269.1	2741.9	3520.3	4944.7	8994.1	22986.1	35385.2	34926.8	34890.7	27923.5
72°	1701.1	1763.0	2181.1	2844.3	3615.5	5395.9	16660.4	33878.7	36163.7	35982.1	27672.7
72.5°	1613.2	1667.9	2048.5	2677.0	3416.5	4891.3	14979.6	32862.4	36074.3	35992.1	27348.4
75°	1270.1	1308.9	1516.6	2070.1	2674.1	2775.1	8208.4	25467.1	32001.8	33332.4	24597.8
77.5°	1050.9	1056.7	1166.2	1506.5	2084.5	1962.0	4032.1	17669.5	22915.5	24378.7	17424.5
80°	856.3	863.5	915.4	1056.7	1577.1	1451.7	1914.4	10160.3	12830.1	12845.9	8286.2
82.5°	681.9	683.3	741.0	772.7	1133.0	1037.9	1097.1	4770.2	5606.3	5393.0	2978.3
85°	480.0	470.0	723.7	634.3	741.0	666.1	605.5	1888.4	2318.1	2217.2	932.7
87.5°	160.0	165.8	321.5	410.8	432.5	377.6	269.6	723.7	875.0	867.8	295.5
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°	5150.8	5150.8	5150.8	5150.8	5150.8	5150.8	5150.8	5150.8	5150.8	5150.8	5150.8
2.5°	5176.7	5130.6	5062.9	4987.9	4928.8	4868.3	4823.6	4800.5	4774.6	4752.9	4778.8
5°	5231.5	5145.0	5000.8	4859.6	4755.8	4663.5	4597.2	4562.6	4531.0	4509.2	4512.1
7.5°	5320.9	5181.1	4938.9	4732.7	4588.6	4489.1	4421.3	4398.3	4378.1	4372.3	4379.6
10°	5416.0	5209.9	4856.7	4582.8	4418.4	4336.3	4306.0	4321.9	4336.3	4349.3	4363.6
12.5°	5524.2	5235.9	4737.0	4407.0	4267.1	4235.4	4265.6	4334.9	4385.4	4415.5	4434.4
15°	5665.4	5258.9	4598.7	4231.1	4137.4	4173.4	4275.7	4395.4	4483.4	4539.5	4548.2
17.5°	5795.2	5257.5	4421.3	4053.7	4032.1	4137.4	4291.6	4460.2	4578.5	4657.7	4673.7
20°	5929.2	5218.5	4215.2	3880.7	3925.4	4098.4	4298.8	4502.1	4644.8	4737.0	4758.7
22.5°	6054.7	5150.8	3988.9	3723.6	3836.0	4046.5	4271.4	4477.6	4620.3	4695.3	4718.3
25°	6139.7	5032.6	3759.6	3591.0	3756.7	3983.1	4182.1	4347.8	4454.5	4492.0	4497.8
27.5°	6183.0	4878.3	3543.4	3475.7	3674.6	3879.3	4016.3	4098.4	4128.7	4125.8	4120.0
30°	6188.7	4675.1	3357.5	3382.0	3579.5	3726.5	3791.4	3775.6	3736.6	3670.3	3676.1
32.5°	6170.0	4445.8	3201.7	3292.6	3458.4	3540.5	3543.4	3467.0	3363.3	3258.0	3229.1
35°	6175.8	4220.9	3064.8	3191.7	3311.4	3347.3	3314.2	3201.7	3060.5	2925.0	2896.2
37.5°	6239.2	4024.9	2946.6	3074.9	3148.4	3157.1	3109.5	2991.3	2887.5	2754.9	2743.3
40°	6390.6	3885.1	2834.1	2943.7	2985.5	2989.9	2922.1	2838.5	2847.1	2776.5	2775.1
42.5°	6663.0	3824.6	2734.7	2806.8	2832.7	2841.4	2789.4	2736.1	2811.1	2764.9	2749.1
45°	7014.7	3838.9	2651.1	2672.7	2720.3	2760.6	2729.0	2664.0	2692.9	2492.5	2426.2
47.5°	7421.3	3931.2	2584.8	2557.4	2639.5	2715.9	2666.9	2568.9	2466.6	2267.6	2230.1
50°	7897.0	4073.9	2524.2	2443.4	2551.6	2655.4	2606.4	2466.6	2312.3	2215.7	2202.7
52.5°	8393.0	4248.3	2463.7	2318.1	2440.6	2609.3	2584.8	2443.4	2253.2	2158.0	2140.8
55°	8955.2	4424.2	2387.3	2172.5	2321.0	2587.7	2574.7	2359.9	2208.5	2155.1	2142.2
57.5°	9654.3	4624.6	2286.4	2021.1	2208.5	2509.8	2469.4	2309.4	2162.4	2122.0	2117.7
60°	10565.4	4920.2	2140.8	1859.6	2071.6	2390.2	2381.5	2235.9	2088.9	2060.0	2054.2
62.5°	11932.0	5408.8	1940.4	1698.2	1918.7	2186.9	2266.2	2136.4	2011.0	2009.5	2012.4
65°	14051.2	6144.0	1722.7	1556.9	1764.5	2015.3	2132.1	2034.0	1931.8	1960.5	1964.9
67.5°	16507.6	6753.8	1509.4	1418.6	1607.4	1852.5	2011.0	1931.8	1826.5	1901.5	1902.9
70°	17325.0	6209.0	1322.0	1281.5	1444.5	1695.3	1879.9	1819.3	1712.7	1787.5	1780.4
72°	16122.7	5012.4	1200.9	1177.8	1322.0	1565.6	1763.0	1714.0	1608.8	1659.3	1640.5
72.5°	15743.6	4778.8	1170.6	1151.9	1288.8	1532.4	1732.8	1688.1	1582.9	1626.1	1608.8
75°	14043.9	4150.3	1006.3	1010.5	1124.5	1371.0	1562.7	1548.2	1440.2	1444.5	1438.7
77.5°	10186.3	3043.2	847.6	876.5	957.3	1205.1	1391.2	1382.5	1264.3	1242.7	1238.3
80°	4727.0	1552.6	690.6	703.5	787.1	1007.7	1186.4	1174.9	1079.8	1052.4	1036.5
82.5°	1618.9	738.1	519.0	527.6	609.8	811.7	1029.3	1022.1	942.8	889.4	856.3
85°	578.1	367.6	363.3	354.6	435.4	638.7	896.7	857.8	741.0	631.4	628.5
87.5°	187.4	157.2	187.4	185.9	253.8	432.5	651.6	555.0	537.7	446.9	438.2
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)