

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: P383373

Luminaire Tested: **GLEON-SA6D-735-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383373
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA6D-735-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45038.4 lumens
Efficiency: N/A
Efficacy: 117.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

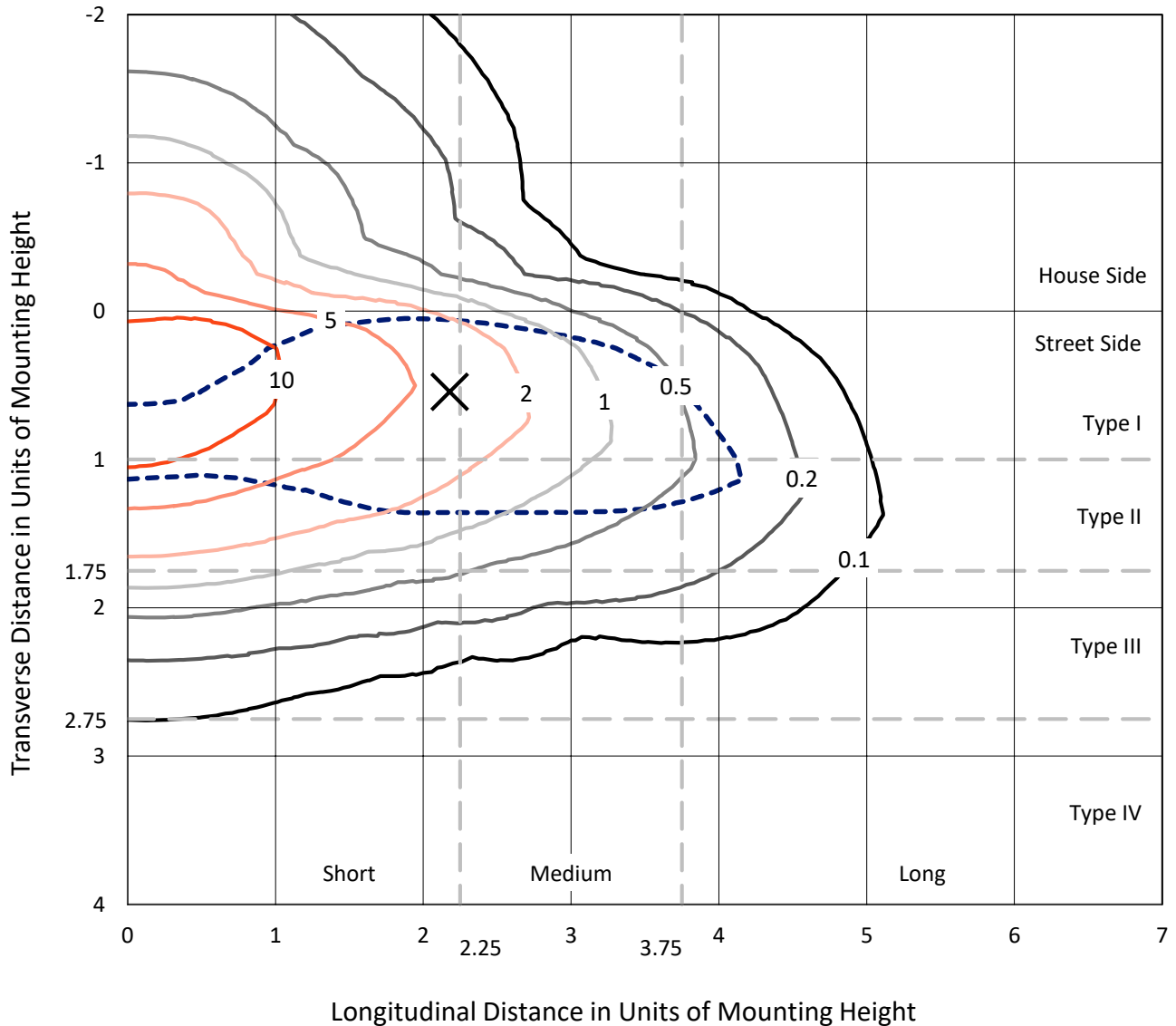
Input Watts (W): 382
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

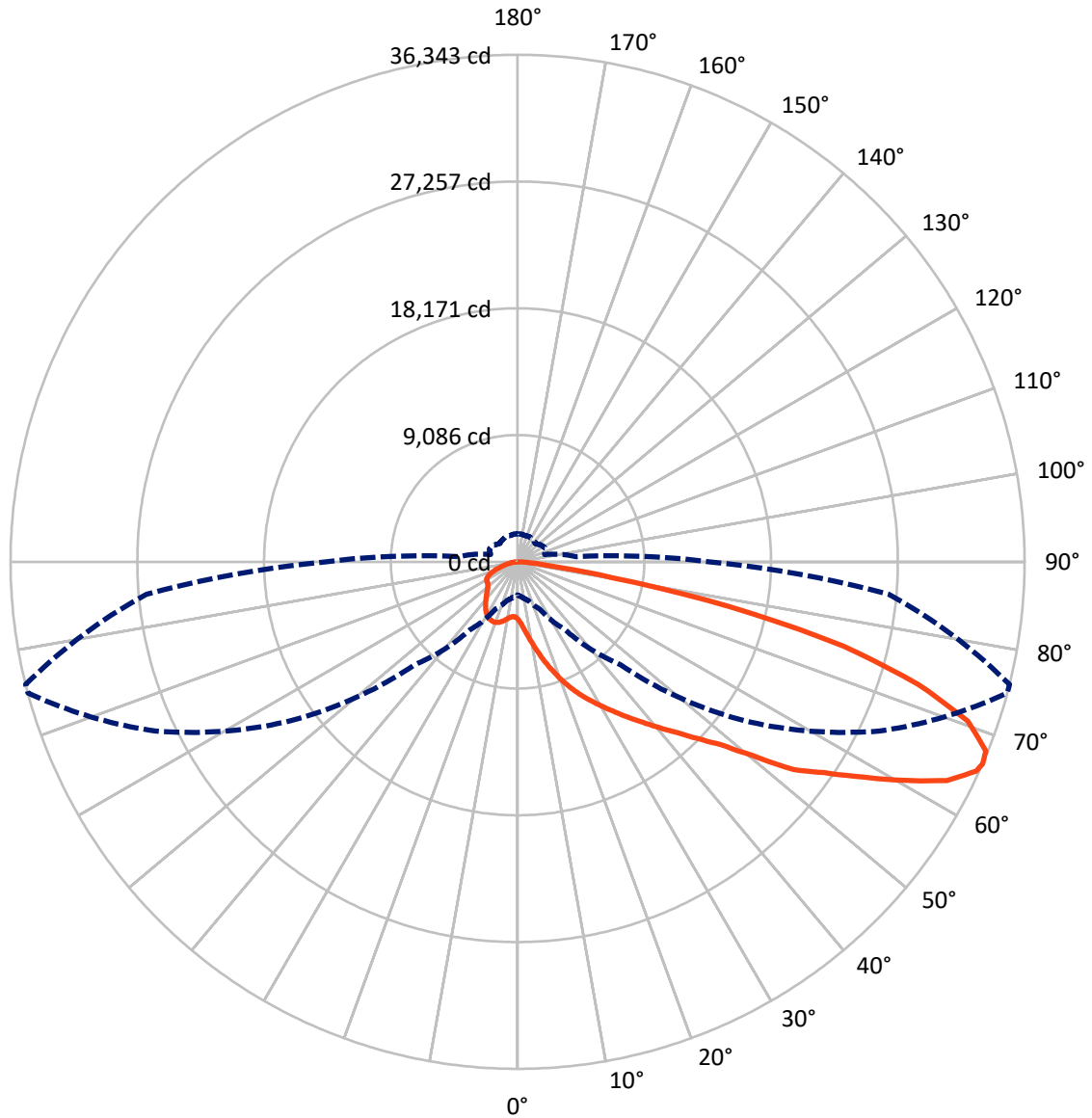
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7578.4	0.0	7578.4
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	37460.0	0.0	37460.0
	% Fixture	83.2	0.0	83.2
Total	Lumens	45038.4	0.0	45038.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	497.4	1.1
10°-20°	1964.1	4.4
20°-30°	3816.7	8.5
30°-40°	6229.8	13.8
40°-50°	8511.4	18.9
50°-60°	9914.0	22.0
60°-70°	8888.1	19.7
70°-80°	4491.7	10.0
80°-90°	725.3	1.6
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°	45038.4	100.0
0°-180°	45038.4	100.0

Coefficient of Utilization



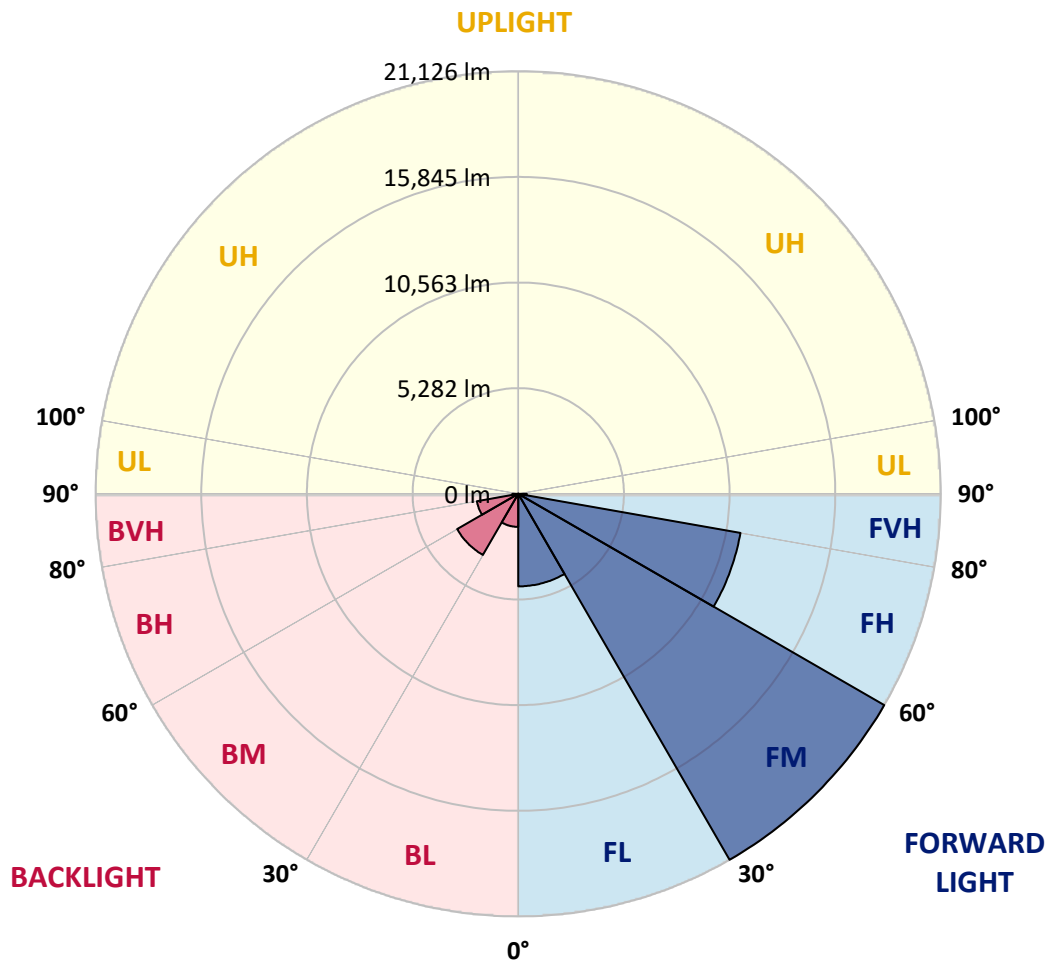
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4625.3	10.3			
FM (30°-60°)	21126.2	46.9			
FH (60°-80°)	11280.2	25.0			G4/12000
FVH (80°-90°)	428.4	1.0			G3/500
BL (0°-30°)	1652.9	3.7	B3/2500		
BM (30°-60°)	3529.0	7.8	B3/5000		
BH (60°-80°)	2099.6	4.7	B3/2500		G3/2500
BVH (80°-90°)	297.0	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4113.1	4113.1	4113.1	4113.1	4113.1	4113.1	4113.1	4113.1	4113.1	4113.1	4113.1
2.5°	5460.1	5377.5	5369.9	5249.1	5221.6	4990.7	4820.9	4643.6	4441.8	4402.0	4243.0
5°	7013.5	7005.9	6900.4	6703.1	6548.8	6154.3	5764.3	5351.6	4898.9	4825.5	4467.8
7.5°	8411.0	8398.8	8317.8	8105.3	7882.0	7397.3	6840.8	6207.7	5473.9	5365.2	4772.0
10°	9472.2	9467.6	9440.1	9284.1	9094.5	8629.7	8015.0	7151.1	6142.0	5993.7	5152.8
12.5°	10291.7	10301.0	10319.2	10264.3	10174.0	9778.0	9148.1	8151.1	6854.5	6707.8	5576.2
15°	10846.8	10874.3	10969.1	11047.0	11094.5	10851.3	10241.2	9174.1	7652.7	7476.9	6045.7
17.5°	11126.6	11157.1	11320.7	11556.2	11773.4	11748.9	11264.2	10149.6	8418.7	8248.9	6550.3
20°	11368.1	11391.1	11574.6	11857.5	12241.2	12410.9	12138.8	11088.4	9258.1	9056.3	7085.4
22.5°	12068.5	12097.5	12152.5	12313.1	12652.6	12964.4	12832.9	11976.7	10027.2	9839.2	7593.0
25°	13420.1	13455.3	13336.0	13199.9	13264.1	13481.3	13505.7	12787.1	10807.0	10594.5	8138.9
27.5°	15048.5	15098.9	14895.5	14545.5	14239.6	14155.5	14126.5	13450.7	11551.7	11305.4	8678.7
30°	16643.2	16730.4	16465.8	16011.7	15450.6	15056.1	14764.1	14100.5	12285.5	12050.1	9187.8
32.5°	18201.3	18166.1	17782.3	17338.9	16681.5	16187.6	15481.2	14797.7	13111.3	12840.6	9693.9
35°	19268.5	19280.8	18924.5	18398.5	17771.6	17392.5	16441.4	15550.0	13953.7	13704.5	10268.8
37.5°	20176.8	20120.2	19716.6	19225.7	18686.0	18523.9	17565.3	16378.7	14866.6	14594.4	10880.4
40°	20479.5	20413.7	20149.3	19796.0	19363.3	19349.5	18805.2	17317.6	15898.6	15629.5	11570.0
42.5°	20296.0	20212.0	20103.4	20007.0	19874.0	19935.2	19970.3	18418.4	17033.2	16731.9	12368.2
45°	19618.7	19491.8	19568.2	19777.7	20066.7	20412.3	21022.3	19637.0	18303.7	18051.4	13305.4
47.5°	18577.4	18462.7	18701.3	19149.3	19935.2	20809.7	22017.7	20982.6	19820.5	19569.8	14640.2
50°	17112.6	17146.3	17487.3	18302.2	19490.2	20993.3	23244.0	22763.9	22025.3	21791.4	16461.3
52.5°	14709.0	14715.2	15675.3	17013.2	18701.3	20898.4	23924.4	25040.6	25036.0	24753.1	18195.2
55°	12476.7	12612.8	13372.6	15151.0	17423.0	20519.3	24399.8	26147.5	27012.9	26681.2	19811.3
57.5°	10296.3	10375.9	11096.0	12881.9	15599.0	19508.6	24887.6	27476.3	29291.2	29081.7	21820.5
60°	7816.2	7938.6	8683.2	10333.0	13265.7	17715.1	24933.5	28863.1	32014.3	31803.3	24063.5
62.5°	5073.2	5284.2	5981.5	7527.3	10443.1	15135.6	23869.3	29769.7	34595.3	34520.4	26054.3
65°	2915.8	3074.9	3559.5	4752.2	7204.7	11897.2	21338.8	29421.2	36183.9	36141.2	26798.9
66°	2382.2	2481.5	2853.1	3714.0	5944.8	10447.7	19868.0	28685.7	36341.4	36342.9	26713.2
67.5°	1905.1	1949.4	2116.1	2658.9	4386.8	8281.1	17239.6	27063.4	36145.7	36199.2	26161.3
70°	1576.4	1599.4	1651.4	1782.8	2394.4	4993.7	12236.6	22848.0	34180.9	34222.3	24006.9
72.5°	1414.4	1428.1	1448.0	1466.3	1689.5	2790.5	7473.8	18277.7	29968.5	30022.0	20724.1
75°	1281.3	1289.0	1285.9	1287.4	1417.3	1778.2	3862.3	13646.4	24231.7	24124.7	15875.7
77.5°	1125.3	1132.9	1117.7	1120.7	1253.8	1367.0	1922.0	9553.2	16352.8	15597.4	8944.7
80°	951.0	957.2	951.0	961.7	1091.7	1032.1	1117.7	5374.5	7230.7	6839.2	3180.3
82.5°	718.6	744.6	762.9	805.8	899.0	734.0	747.7	2093.2	2201.8	2096.3	975.5
85°	315.0	383.8	575.0	616.2	675.8	440.3	490.8	853.2	896.0	868.5	354.7
87.5°	82.5	90.2	284.4	357.8	374.6	198.8	255.3	388.4	409.8	388.4	117.7
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°	4113.1	4113.1	4113.1	4113.1	4113.1	4113.1	4113.1	4113.1	4113.1	4113.1	4113.1
2.5°	4158.9	4084.0	3949.4	3830.2	3740.0	3678.8	3617.7	3587.0	3568.7	3550.3	3553.4
5°	4291.9	4140.5	3909.7	3746.0	3654.4	3596.2	3565.7	3553.4	3545.7	3527.4	3527.4
7.5°	4492.2	4278.1	3960.1	3792.0	3720.0	3675.7	3657.3	3651.3	3642.1	3620.6	3623.7
10°	4744.5	4444.8	4065.6	3902.1	3836.3	3787.4	3761.3	3752.2	3735.3	3710.9	3714.0
12.5°	5041.2	4651.2	4204.7	4033.5	3954.0	3888.3	3845.4	3819.4	3790.4	3758.3	3759.8
15°	5365.2	4876.0	4354.6	4151.3	4042.7	3951.0	3882.1	3837.8	3792.0	3752.2	3750.7
17.5°	5694.0	5093.1	4469.3	4215.4	4068.7	3947.9	3854.7	3785.8	3729.3	3680.4	3675.7
20°	6048.7	5288.9	4533.5	4209.4	4019.7	3876.1	3752.2	3666.6	3603.9	3555.0	3547.3
22.5°	6409.6	5472.3	4544.2	4146.7	3911.2	3735.3	3605.4	3510.6	3446.4	3396.0	3377.6
25°	6739.8	5614.5	4499.8	4025.9	3759.8	3570.2	3443.3	3347.0	3295.0	3235.4	3217.0
27.5°	7041.1	5713.9	4411.2	3871.4	3590.1	3403.6	3284.3	3201.7	3145.2	3099.3	3084.0
30°	7311.7	5767.4	4265.9	3688.0	3415.8	3246.1	3145.2	3088.6	3039.6	2981.6	2970.9
32.5°	7568.5	5767.4	4079.4	3487.6	3243.0	3106.9	3047.3	3012.2	2957.1	2900.6	2885.2
35°	7825.5	5732.3	3859.2	3278.2	3084.0	3007.6	3004.5	2963.3	2879.1	2802.7	2782.8
37.5°	8096.1	5660.4	3611.5	3082.5	2954.0	2963.3	2989.2	2897.5	2778.2	2669.6	2640.6
40°	8401.9	5561.0	3354.6	2912.8	2845.5	2943.3	2947.9	2802.7	2570.2	2470.8	2444.8
42.5°	8761.2	5461.6	3116.1	2762.9	2759.9	2883.7	2869.9	2597.8	2458.6	2408.1	2394.4
45°	9233.7	5405.0	2889.8	2620.7	2692.5	2787.4	2736.9	2484.6	2426.5	2397.5	2385.2
47.5°	9978.3	5434.1	2681.8	2507.5	2625.3	2691.1	2489.2	2438.8	2397.5	2362.3	2350.1
50°	10911.0	5417.2	2513.7	2429.6	2548.8	2590.2	2377.6	2379.2	2357.7	2318.0	2299.6
52.5°	11612.8	5285.8	2405.2	2385.2	2481.5	2411.2	2307.3	2321.0	2310.3	2252.2	2232.4
55°	12290.2	5172.6	2350.1	2368.5	2432.6	2188.0	2224.7	2258.4	2247.6	2191.1	2181.9
57.5°	13132.7	5151.2	2316.5	2373.0	2391.4	2076.4	2145.2	2189.5	2181.9	2157.5	2152.8
60°	14164.7	5157.3	2285.8	2380.7	2345.5	1993.8	2070.3	2126.8	2131.5	2126.8	2123.8
62.5°	14732.0	4990.7	2209.4	2359.2	2264.5	1922.0	1992.3	2074.8	2076.4	2085.5	2084.1
65°	14250.3	4492.2	2067.2	2284.3	2128.4	1862.3	1925.0	2015.2	1992.3	2033.6	2033.6
66°	13782.4	4204.7	1996.9	2235.4	2070.3	1839.4	1903.6	1984.7	1955.6	2012.1	2012.1
67.5°	12826.9	3720.0	1870.0	2131.5	1987.7	1807.3	1879.1	1934.2	1894.4	1978.5	1972.5
70°	11080.7	2877.6	1614.7	1896.0	1851.6	1759.9	1845.5	1833.3	1775.2	1903.6	1879.1
72.5°	9342.2	2186.4	1296.6	1587.1	1645.2	1700.3	1798.1	1704.8	1631.4	1721.7	1668.1
75°	7249.0	1643.7	1024.4	1233.9	1389.9	1607.0	1741.5	1556.5	1451.1	1441.8	1412.8
77.5°	3918.8	1128.4	811.9	941.9	1104.0	1490.8	1703.3	1397.5	1238.5	1201.8	1178.9
80°	1552.0	734.0	590.2	714.0	772.2	1322.6	1611.6	1212.5	1021.3	984.6	949.5
82.5°	640.6	434.2	380.7	478.5	503.0	1131.5	1446.4	993.9	788.9	1091.7	1159.0
85°	275.2	238.6	226.3	247.7	284.4	793.6	1151.3	758.4	851.6	760.0	603.9
87.5°	82.5	100.9	96.3	94.8	104.0	189.6	613.1	422.0	625.3	237.0	177.4
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)