

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: P382703

Luminaire Tested: **GLEON-SA0D-735-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382703
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA0D-735-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 71559.6 lumens
Efficiency: N/A
Efficacy: 111.8 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

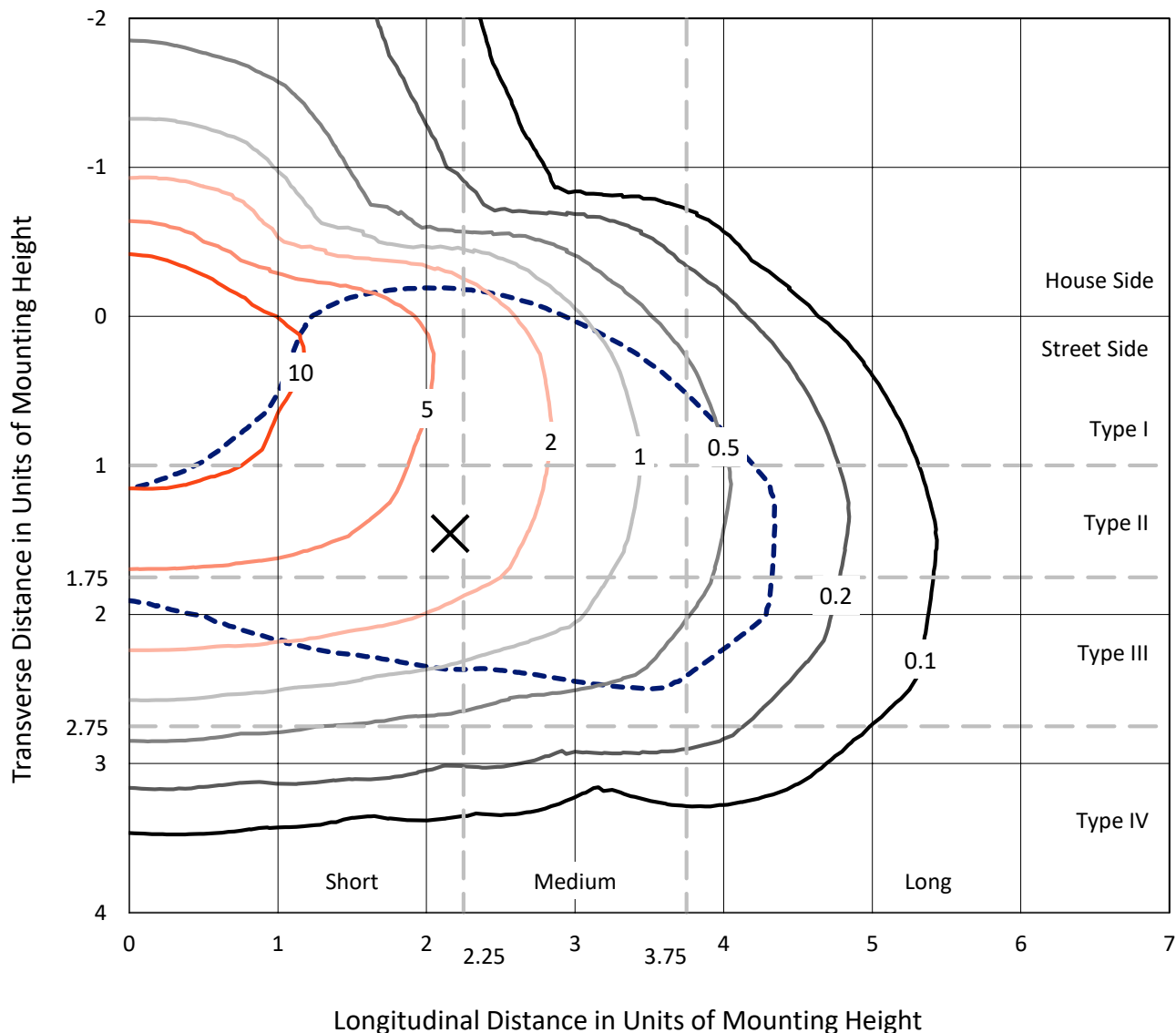
Input Watts (W): 640
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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 CATALOG NUMBER: GLEON-SA0D-735-U-T3

Iso-Footcandle Lines of Horizontal Illumination

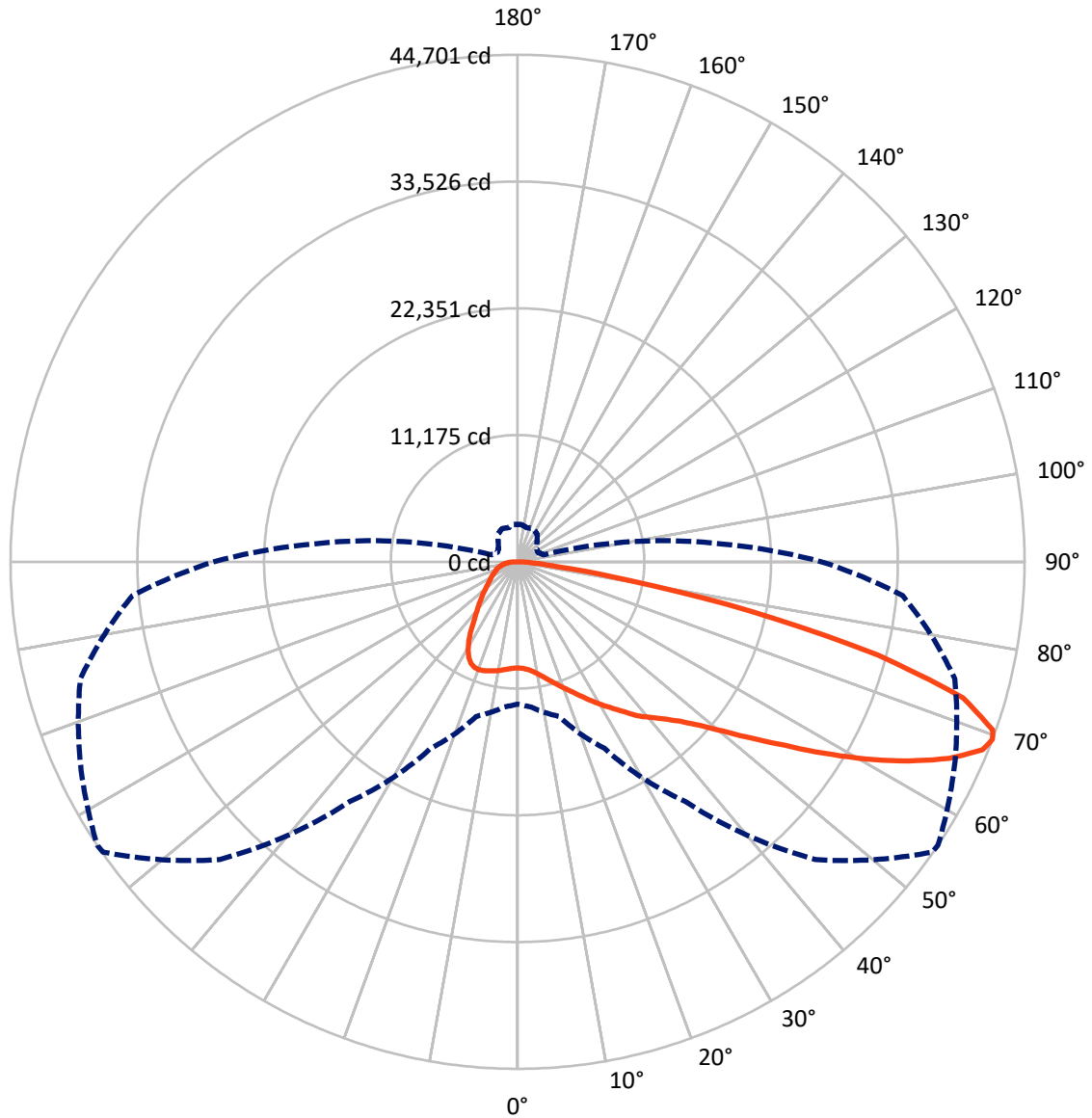
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15936.2	0.0	15936.2
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	55623.4	0.0	55623.4
	% Fixture	77.7	0.0	77.7
Total	Lumens	71559.6	0.0	71559.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	918.8	1.3
10°-20°	2954.6	4.1
20°-30°	5157.6	7.2
30°-40°	7408.8	10.4
40°-50°	10253.4	14.3
50°-60°	15022.6	21.0
60°-70°	18315.4	25.6
70°-80°	10125.9	14.2
80°-90°	1402.4	2.0
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°	71559.6	100.0
0°-180°	71559.6	100.0

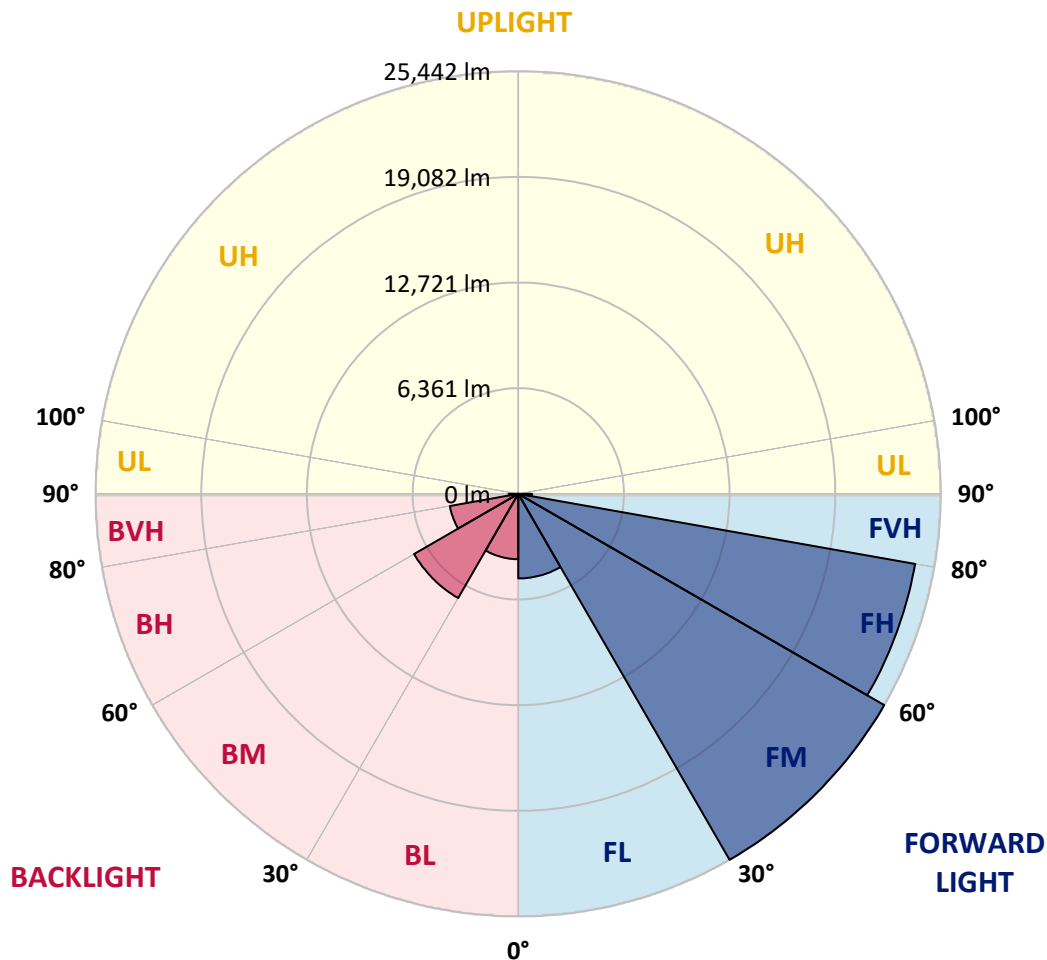


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5092.9	7.1			
FM (30°-60°)	25442.1	35.6			
FH (60°-80°)	24262.3	33.9			G5
FVH (80°-90°)	826.1	1.2			G5
BL (0°-30°)	3938.2	5.5	B4/5000		
BM (30°-60°)	7242.6	10.1	B4/8500		
BH (60°-80°)	4179.0	5.8	B4/5000		G4/5000
BVH (80°-90°)	576.4	0.8			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	9355.3	9355.3	9355.3	9355.3	9355.3	9355.3	9355.3	9355.3	9355.3	9355.3	9355.3
2.5°	9414.5	9424.4	9417.0	9436.7	9414.5	9429.3	9417.0	9417.0	9409.6	9387.4	9362.7
5°	9562.4	9582.2	9569.8	9589.5	9562.4	9567.4	9545.2	9545.2	9522.9	9476.2	9426.8
7.5°	9794.1	9816.4	9806.5	9826.2	9789.3	9789.3	9759.6	9757.1	9712.8	9636.4	9579.7
10°	10070.2	10099.8	10090.0	10119.6	10090.0	10099.8	10070.2	10070.2	10011.1	9902.6	9831.1
12.5°	10472.1	10509.1	10482.0	10479.4	10467.1	10486.9	10462.2	10457.3	10403.1	10255.1	10156.6
15°	11009.5	11048.9	10992.3	10987.3	10918.3	10910.8	10910.8	10903.5	10868.9	10691.5	10528.7
17.5°	11628.2	11640.5	11591.2	11512.3	11423.7	11366.9	11359.6	11379.2	11379.2	11172.1	10913.4
20°	12234.7	12256.8	12217.4	12128.7	12015.3	11931.4	11872.3	11911.7	11909.3	11662.8	11295.5
22.5°	12895.3	12947.1	12888.0	12774.5	12641.4	12547.8	12444.2	12478.7	12481.2	12177.9	11670.1
25°	13750.8	13703.9	13666.9	13506.7	13316.8	13220.7	13124.6	13159.1	13149.3	12732.7	12057.2
27.5°	14507.5	14517.4	14468.1	14298.0	14078.7	13866.6	13861.7	13883.9	13846.9	13309.5	12422.0
30°	15387.7	15392.5	15323.5	15170.7	14931.6	14657.9	14593.8	14630.8	14551.9	13856.8	12806.5
32.5°	16262.8	16287.5	16211.0	16026.1	15833.8	15501.0	15372.9	15397.5	15200.2	14416.4	13203.5
35°	17029.4	17064.0	17039.3	16916.1	16706.5	16420.6	16267.7	16252.9	16008.8	15101.7	13728.6
37.5°	17810.9	17843.0	17815.8	17712.3	17628.5	17325.3	17243.9	17243.9	16819.9	15801.7	14396.6
40°	18614.6	18663.8	18631.8	18488.8	18417.3	18279.3	18084.5	18037.6	17579.1	16642.4	15486.2
42.5°	19361.5	19425.6	19553.7	19470.0	19324.5	19344.2	18952.2	18927.6	18592.4	17884.9	16854.4
45°	20421.5	20515.2	20732.2	20668.1	20638.4	20530.0	20064.0	20041.9	19913.7	19556.3	18552.9
47.5°	21577.7	21705.9	22097.8	22110.2	22428.1	22223.6	21590.0	21513.6	21543.2	21558.0	20626.1
50°	22642.7	22783.1	23426.6	23729.8	24479.2	24523.5	23510.4	23441.4	23557.3	23897.5	23042.0
52.5°	23493.2	23670.6	24474.3	25411.0	26695.4	27060.2	25874.5	25822.7	25909.0	26495.7	25773.4
55°	24116.8	24309.1	25184.2	26890.1	28941.1	29584.6	28596.1	28546.7	28600.9	29347.9	28743.9
57.5°	24262.3	24309.1	25578.7	27886.1	30836.9	32382.6	31926.5	31827.9	31561.7	32212.5	32022.6
60°	23579.4	23766.8	25253.2	28236.1	32303.6	35141.0	35407.3	35284.0	34537.1	35069.6	34916.7
62.5°	22193.9	22529.2	24037.9	27703.7	32878.0	37394.3	38821.6	38673.7	37386.8	37732.0	36997.3
65°	19930.9	20073.9	21659.0	25867.1	32148.4	38836.4	41866.1	41792.1	40172.5	39632.6	37381.9
67.5°	15883.2	16151.8	17497.8	22028.8	29163.0	38666.3	44220.3	44212.9	41991.8	40337.7	36018.7
69°	12547.8	12826.3	14108.2	18146.2	25805.5	37110.8	44614.8	44701.1	42504.6	39908.7	34071.2
70°	10003.7	10326.6	11206.7	15284.1	22825.1	35059.7	44286.9	44442.2	42406.0	39201.2	32274.1
72.5°	4257.4	4518.7	5144.8	7878.7	13911.0	26180.2	40493.0	41079.7	40120.7	35878.2	26673.2
75°	1858.7	1940.1	2223.6	3212.2	6175.2	14248.7	31721.9	32806.6	34305.4	30326.6	19869.4
77.5°	1360.8	1395.3	1550.6	1885.8	2770.9	5381.5	20399.3	21030.4	24740.5	22068.3	12187.8
80°	1052.6	1077.2	1198.1	1385.4	1809.4	2176.7	9303.6	9845.9	13911.0	11334.9	5075.8
82.5°	838.1	855.4	939.2	1020.6	1249.9	1318.9	3088.8	3426.6	5135.0	3130.7	1343.5
85°	779.0	798.7	828.3	744.5	801.2	774.0	1336.1	1397.8	1550.6	1230.1	562.1
87.5°	352.5	416.6	820.9	579.3	426.5	340.2	547.3	571.9	643.4	645.8	249.0
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°	9355.3	9355.3	9355.3	9355.3	9355.3	9355.3	9355.3	9355.3	9355.3	9355.3	9355.3
2.5°	9377.5	9370.2	9382.5	9352.9	9389.8	9387.4	9375.1	9380.0	9404.6	9402.2	9404.6
5°	9434.2	9429.3	9444.1	9421.9	9466.3	9481.1	9483.5	9505.7	9532.8	9540.3	9540.3
7.5°	9577.2	9577.2	9584.6	9555.0	9584.6	9582.2	9569.8	9592.0	9619.2	9621.6	9619.2
10°	9823.7	9826.2	9813.9	9737.5	9712.8	9646.3	9584.6	9587.1	9621.6	9648.7	9656.0
12.5°	10134.3	10124.5	10070.2	9929.7	9826.2	9690.6	9626.5	9624.0	9658.6	9680.7	9688.2
15°	10489.3	10462.2	10321.7	10092.4	9910.0	9776.9	9673.4	9648.7	9628.9	9604.3	9606.8
17.5°	10824.6	10762.9	10528.7	10210.8	10018.5	9841.0	9641.3	9481.1	9370.2	9306.1	9286.3
20°	11164.8	11044.0	10706.3	10321.7	10077.7	9754.7	9370.2	9044.8	8842.6	8748.9	8731.7
22.5°	11475.4	11280.7	10871.4	10437.5	10030.8	9463.8	8859.9	8386.5	8105.5	7979.7	7989.6
25°	11778.6	11507.4	11044.0	10518.9	9794.1	8951.1	8149.8	7568.1	7242.7	7102.2	7097.3
27.5°	12044.8	11736.7	11231.3	10452.3	9352.9	8221.4	7309.2	6742.3	6471.1	6350.3	6330.6
30°	12350.6	12025.2	11480.3	10198.4	8707.0	7378.2	6488.3	6089.0	5896.7	5775.9	5753.7
32.5°	12722.8	12417.1	11685.0	9737.5	7881.2	6498.2	5847.4	5568.8	5393.8	5258.2	5233.5
35°	13265.1	12934.8	11736.7	9076.8	6973.9	5803.0	5376.5	5090.6	4853.9	4678.9	4661.7
37.5°	13945.5	13583.1	11618.4	8221.4	6093.9	5351.9	4984.6	4632.0	4324.0	4077.4	4038.0
40°	14926.7	14379.4	11290.5	7235.3	5445.5	5004.3	4602.5	4200.6	3818.6	3530.1	3473.5
42.5°	16105.0	15313.7	10787.6	6254.1	4969.8	4651.8	4222.9	3724.9	3360.0	3155.4	3125.8
45°	17603.8	16284.9	10090.0	5396.3	4501.4	4299.3	3813.7	3355.1	3128.3	2978.0	2953.3
47.5°	19314.6	17374.6	9357.8	4698.6	4104.5	3969.0	3485.8	3189.9	3010.0	2891.6	2869.4
50°	21417.5	18604.7	8581.3	4126.7	3705.1	3572.0	3330.5	3098.7	2955.7	2864.5	2842.3
52.5°	23788.9	19992.6	8021.6	3675.6	3374.8	3278.7	3249.1	3049.4	2933.5	2864.5	2842.3
55°	26342.9	21405.1	7417.7	3295.9	3088.8	3116.0	3194.8	3054.4	2975.5	2891.6	2859.6
57.5°	28899.2	22864.5	6744.7	2975.5	2862.1	2995.2	3157.9	3064.2	2997.6	2916.3	2886.7
60°	30920.7	23788.9	5701.9	2706.8	2682.1	2862.1	3069.2	2990.3	2904.0	2906.4	2901.5
62.5°	31864.9	23739.7	4550.7	2467.7	2502.1	2682.1	2926.2	2874.4	2802.9	2899.1	2906.4
65°	31334.8	22556.4	3542.5	2250.7	2309.9	2494.8	2778.2	2817.7	2842.3	3027.3	3051.8
67.5°	29111.2	20253.9	2743.8	2060.9	2134.8	2366.6	2793.1	3069.2	3101.2	3295.9	3293.5
69°	26811.2	18094.4	2383.8	1962.3	2048.6	2398.6	2985.3	3229.4	3108.6	3315.7	3286.0
70°	24883.5	16386.0	2191.6	1895.7	2009.2	2455.3	3113.5	3226.9	3071.6	3249.1	3199.8
72.5°	19164.3	11788.5	1858.7	1772.5	1876.0	2349.3	3150.5	3155.4	2985.3	3019.8	2936.1
75°	13144.3	7449.8	1622.1	1604.9	1673.9	2117.6	3032.2	3015.0	2761.0	2711.7	2642.7
77.5°	7247.6	3784.0	1378.0	1444.6	1491.4	1876.0	2756.1	2731.4	2521.9	2418.3	2393.7
80°	2795.5	1656.6	1163.6	1284.3	1313.9	1624.5	2415.9	2393.7	2218.7	2085.5	2048.6
82.5°	1055.1	867.7	961.5	1111.8	1101.9	1341.1	2046.1	2033.8	1863.7	1669.0	1609.7
85°	488.1	520.2	761.7	917.0	845.6	993.5	1636.9	1659.1	1452.0	1220.2	1220.2
87.5°	207.1	290.9	539.8	692.7	569.5	670.5	1200.6	1146.3	1052.6	729.7	685.3
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)