

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: P193004

Luminaire Tested: **GLEON-AF-06-LED-E1-SL4-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193004
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24294)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-AF-06-LED-E1-SL4-7030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35891.7 lumens
Efficiency: N/A
Efficacy: 94.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G5

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: 25 FT

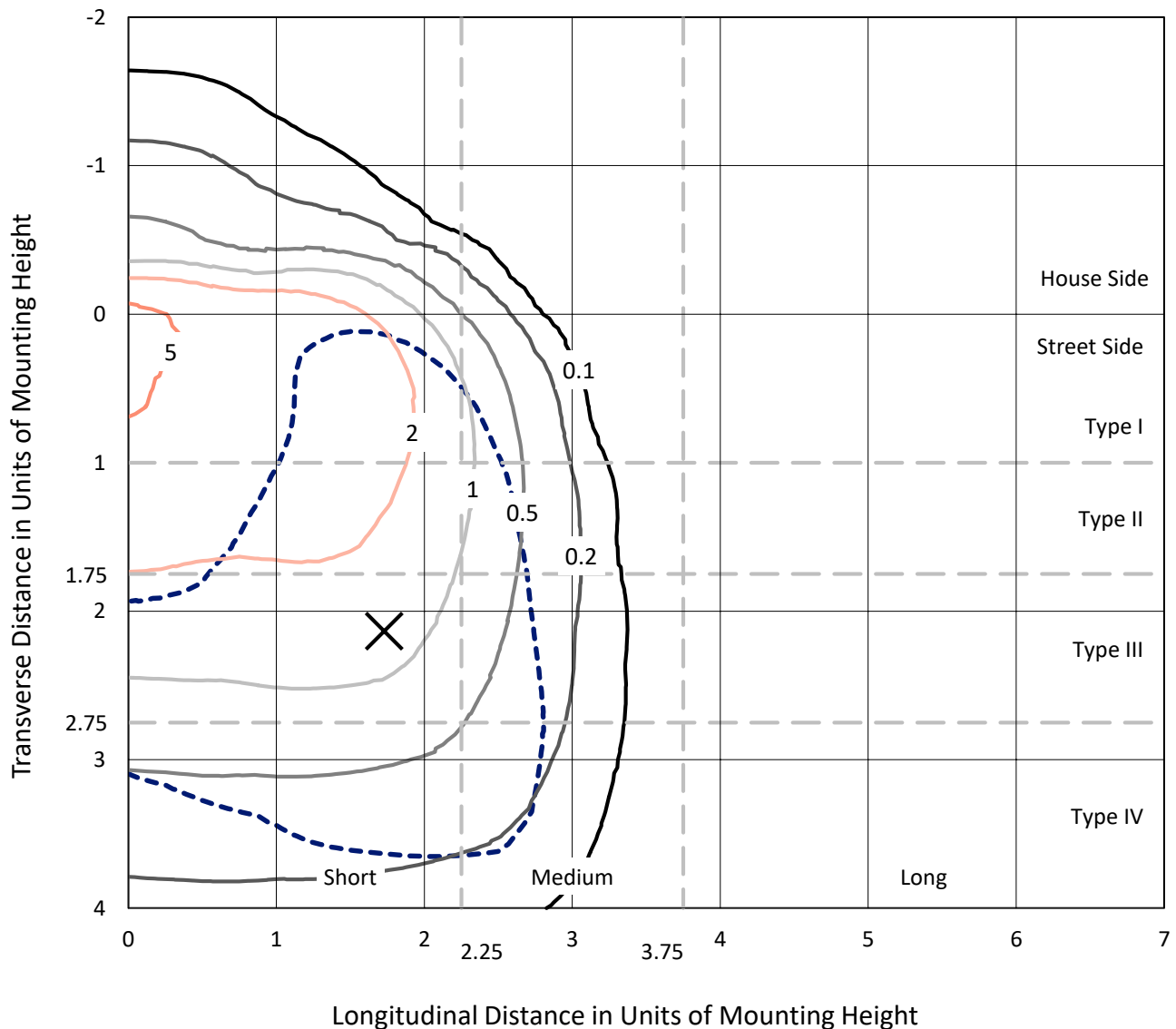


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

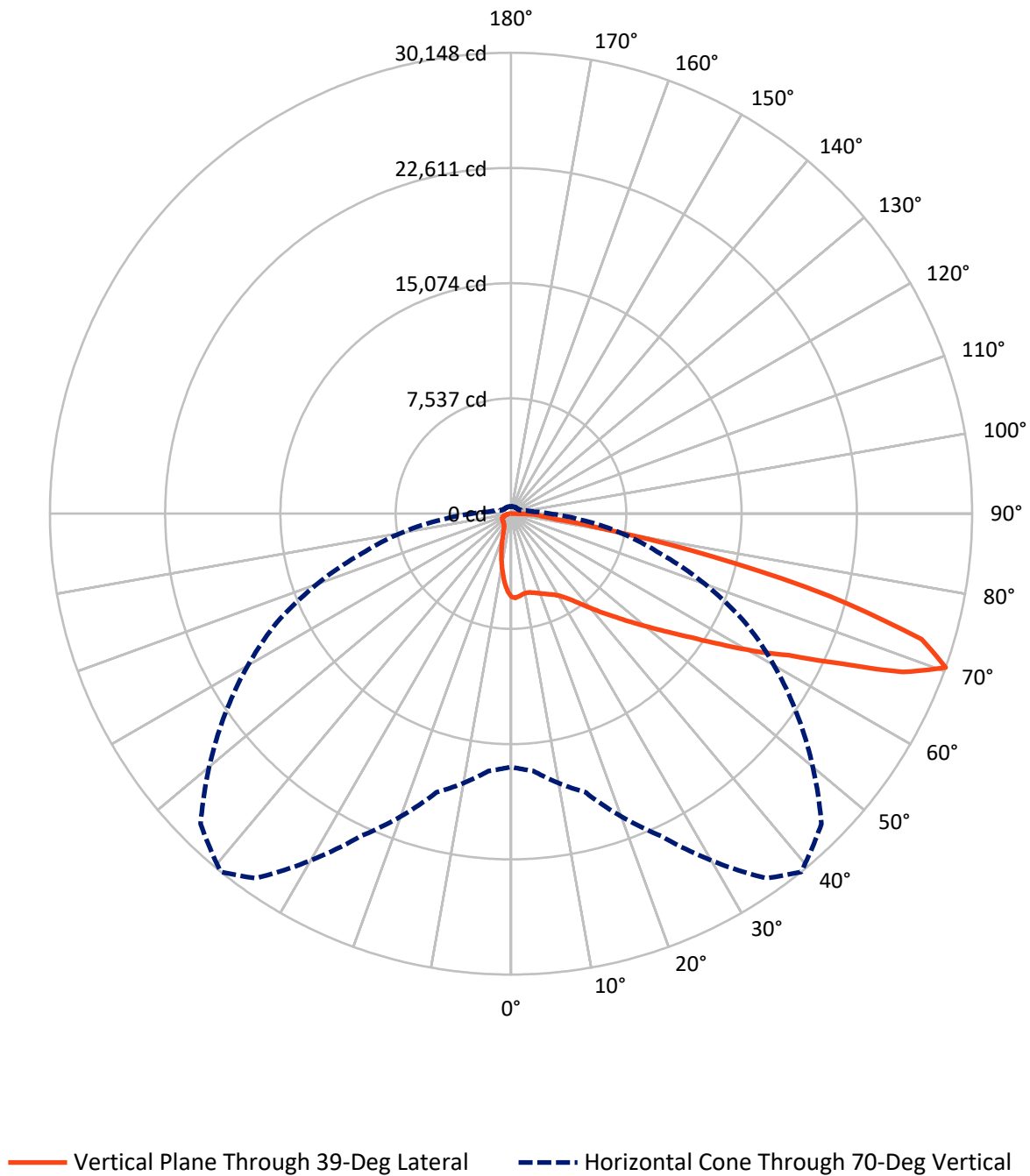


Based on 30 foot mounting height. Maximum calculated value = 6.1 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4082.1	0.0	4082.1
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	31809.6	0.0	31809.6
	% Fixture	88.6	0.0	88.6
Total	Lumens	35891.7	0.0	35891.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	467.6	1.3
10°-20°	1168.9	3.3
20°-30°	1820.0	5.1
30°-40°	2835.2	7.9
40°-50°	4759.8	13.3
50°-60°	7561.3	21.1
60°-70°	10085.9	28.1
70°-80°	6090.7	17.0
80°-90°	1102.3	3.1
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°	35891.7	100.0
0°-180°	35891.7	100.0

Coefficient of Utilization



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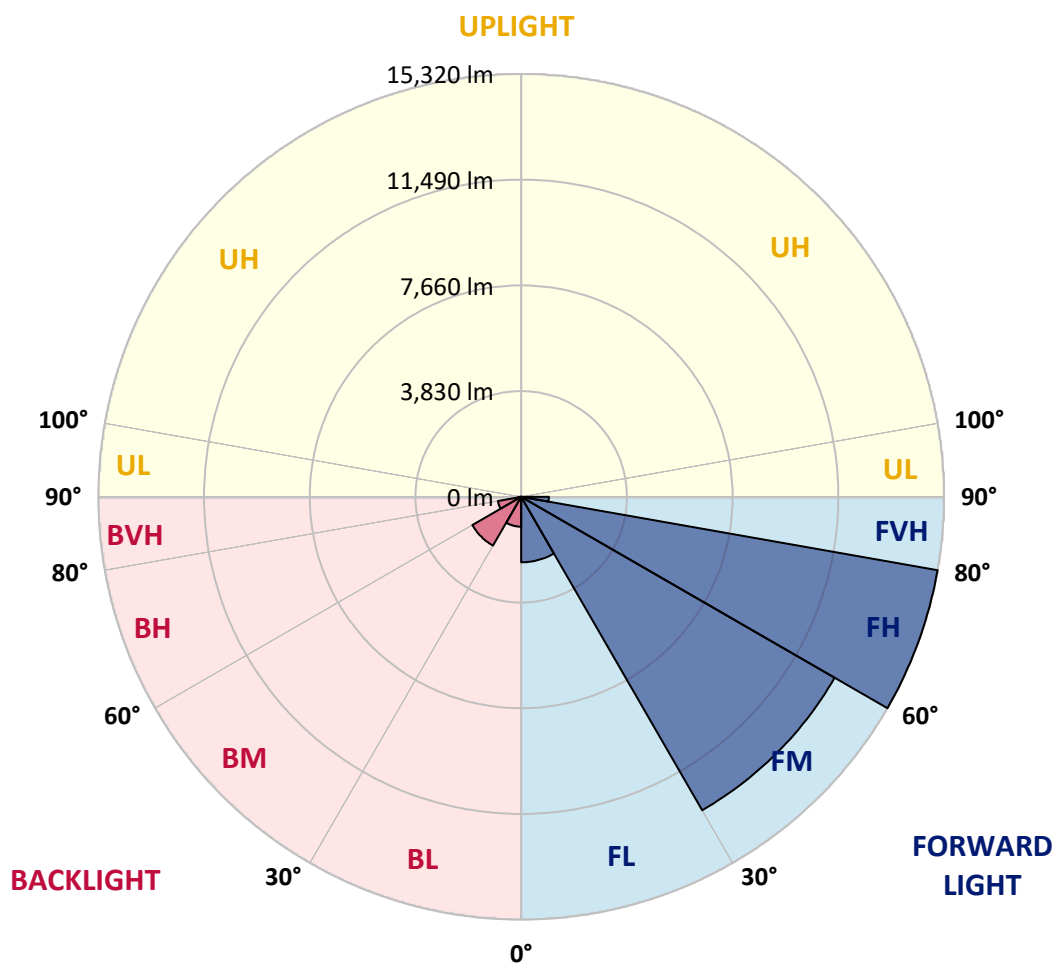
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2373.6	6.6			
FM	(30°-60°)	13113.4	36.5			
FH	(60°-80°)	15319.6	42.7			G5
FVH	(80°-90°)	1003.0	2.8			G5
BL	(0°-30°)	1082.9	3.0	B3/2500		
BM	(30°-60°)	2042.8	5.7	B2/2500		
BH	(60°-80°)	857.0	2.4	B2/1000		G2/1000
BVH	(80°-90°)	99.4	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-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	5448.9	5448.9	5448.9	5448.9	5448.9	5448.9	5448.9	5448.9	5448.9	5448.9	5448.9
2.5°	5554.7	5552.9	5538.4	5527.4	5518.2	5514.7	5521.9	5494.5	5470.8	5441.6	5410.6
5°	5512.7	5510.9	5487.2	5465.3	5443.4	5436.0	5434.3	5385.1	5355.9	5312.0	5253.6
7.5°	5467.2	5458.0	5427.0	5390.6	5352.2	5333.9	5315.7	5251.9	5219.0	5175.2	5107.7
10°	5419.7	5408.8	5379.6	5343.1	5306.6	5279.2	5248.2	5186.1	5151.5	5118.6	5040.1
12.5°	5370.4	5361.4	5354.0	5337.7	5312.0	5288.3	5264.6	5211.6	5175.2	5136.9	5045.6
15°	5363.1	5359.5	5375.9	5386.9	5372.3	5357.6	5332.1	5286.5	5248.2	5209.8	5091.3
17.5°	5421.6	5419.7	5461.7	5491.0	5483.6	5458.0	5423.4	5372.3	5341.2	5308.4	5160.7
20°	5549.3	5558.3	5609.5	5647.8	5611.3	5574.9	5518.2	5447.1	5430.6	5416.1	5231.8
22.5°	5790.2	5799.3	5835.7	5850.4	5755.4	5702.6	5624.1	5532.9	5521.9	5532.9	5317.5
25°	6166.0	6157.0	6151.6	6096.7	5923.4	5841.2	5740.9	5646.0	5651.4	5700.7	5438.0
27.5°	6664.3	6615.0	6538.3	6374.0	6098.6	6007.3	5885.0	5797.4	5832.2	5927.0	5618.6
30°	7180.6	7125.9	6948.9	6680.6	6328.6	6228.1	6091.2	5992.8	6084.0	6233.6	5859.5
32.5°	7658.7	7651.4	7392.4	7047.4	6646.0	6558.4	6421.5	6310.3	6458.0	6686.1	6220.7
35°	8180.7	8197.0	7886.9	7472.7	7074.9	6983.7	6885.1	6801.1	6998.2	7312.0	6744.6
37.5°	8739.1	8771.9	8405.1	7938.0	7563.9	7525.6	7467.3	7430.6	7735.4	8169.8	7476.3
40°	9485.5	9452.6	8943.4	8463.6	8164.3	8162.4	8144.1	8188.0	8695.3	9290.2	8416.0
42.5°	10284.7	10188.0	9514.7	9027.4	8823.0	8885.1	8921.6	9100.4	9850.4	10651.4	9562.1
45°	11146.0	10928.8	10107.7	9624.1	9554.7	9686.2	9810.3	10199.0	11209.9	12200.8	10817.5
47.5°	11834.0	11624.1	10720.8	10250.0	10401.5	10600.4	10839.4	11454.4	12731.8	13801.1	12056.5
50°	12375.9	12239.1	11339.5	10979.9	11333.9	11640.5	12031.1	12875.8	14315.7	15359.5	13204.4
52.5°	12901.5	12799.2	11963.6	11728.1	12428.9	12852.1	13383.2	14401.5	15939.9	16892.3	14169.8
55°	13375.9	13303.0	12635.1	12660.6	13717.2	14268.2	14936.2	16138.6	17709.9	18259.2	14987.2
57.5°	13910.6	13817.6	13401.5	13830.2	15372.2	16087.7	16956.3	18091.2	19370.5	19474.5	15609.6
60°	14448.9	14368.5	14251.9	15180.7	17474.5	18226.3	19049.3	19983.6	21054.8	20418.0	15573.0
62.5°	14916.1	14925.3	15131.5	16598.5	19532.9	20403.3	21406.9	22330.3	22578.5	20582.1	14421.5
65°	15708.1	15852.2	16467.1	18605.9	22430.7	23594.9	24826.7	24678.8	23000.0	19047.5	11952.5
67.5°	16649.7	16903.3	18149.6	21281.1	26093.1	27638.8	28115.0	25209.9	21312.1	15483.5	8520.0
70°	16554.8	16903.3	18875.9	23275.6	29111.4	30147.8	28702.6	22815.7	16923.3	10115.0	4525.5
72.5°	14700.8	15198.9	17396.0	22361.3	28160.6	28069.4	24917.8	17009.2	10054.8	4062.0	1768.3
75°	11204.4	11708.0	13598.5	17666.1	22257.3	21490.9	17680.7	9396.0	3815.7	1613.1	1115.0
77.5°	6445.3	6835.8	8295.6	10833.9	14120.4	13334.0	9841.2	4178.8	1857.6	1124.1	870.5
80°	3598.6	3815.7	4702.5	5496.4	6919.7	6343.0	4403.2	2596.8	1386.8	815.7	671.5
82.5°	2844.9	3038.3	3802.9	3467.2	3160.6	2916.0	2529.3	2312.0	1107.7	514.6	401.4
85°	2485.4	2669.8	3219.0	2730.0	2158.8	1979.9	2054.7	2275.6	861.3	310.2	343.1
87.5°	2302.9	2549.2	2868.6	2104.0	1680.6	1489.1	1895.9	2494.5	277.4	193.4	138.6
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°	5448.9	5448.9	5448.9	5448.9	5448.9	5448.9	5448.9	5448.9	5448.9	5448.9	5448.9
2.5°	5383.2	5354.0	5306.6	5264.6	5198.9	5164.2	5125.9	5098.6	5076.6	5058.3	5087.5
5°	5217.1	5162.4	5062.1	4954.4	4826.6	4726.3	4642.3	4563.9	4509.1	4472.6	4498.2
7.5°	5060.3	4970.9	4813.9	4618.6	4399.7	4213.5	4060.2	3925.1	3832.2	3771.8	3795.6
10°	4970.9	4859.6	4616.8	4310.3	3987.2	3697.2	3456.2	3248.2	3104.0	3021.9	3034.6
12.5°	4948.9	4804.7	4469.0	4047.4	3605.9	3202.6	2863.1	2574.8	2372.2	2266.5	2270.1
15°	4965.3	4781.0	4330.3	3795.6	3237.3	2728.1	2304.8	1954.4	1718.9	1598.6	1596.8
17.5°	4992.7	4762.8	4184.3	3523.7	2863.1	2271.9	1799.3	1456.2	1248.2	1151.5	1144.2
20°	5021.9	4733.5	4020.0	3229.9	2474.5	1848.5	1408.8	1140.5	1009.1	956.2	952.5
22.5°	5063.8	4708.0	3850.4	2919.7	2093.1	1505.5	1158.8	978.1	908.7	881.4	877.8
25°	5131.4	4695.3	3669.7	2596.8	1750.0	1259.1	1009.1	897.8	857.6	839.4	837.6
27.5°	5244.6	4713.6	3500.0	2282.9	1470.8	1093.0	925.2	857.6	828.5	812.1	810.2
30°	5390.6	4770.0	3321.2	1985.4	1253.6	979.9	874.1	830.3	806.6	790.2	790.2
32.5°	5633.2	4865.0	3133.2	1728.2	1098.5	901.5	835.8	806.6	786.4	773.8	771.9
35°	5990.9	5043.9	2958.0	1514.6	987.2	844.9	802.9	780.9	766.5	759.2	759.2
37.5°	6511.0	5326.6	2802.9	1361.3	919.8	806.6	771.9	755.5	746.4	746.4	746.4
40°	7209.9	5717.2	2677.0	1259.1	881.4	779.2	748.2	735.5	730.0	731.7	731.7
42.5°	8072.9	6224.5	2593.0	1187.9	863.1	762.7	731.7	720.8	715.3	713.5	715.3
45°	9056.6	6801.1	2584.0	1134.9	844.9	751.8	720.8	709.8	698.9	691.6	691.6
47.5°	10012.7	7386.9	2658.8	1116.7	824.8	739.0	711.8	700.7	684.3	667.9	667.9
50°	10857.6	7885.0	2759.2	1124.1	817.5	720.8	697.1	691.6	666.1	647.8	645.9
52.5°	11529.2	8268.3	2841.3	1146.0	824.8	708.0	678.8	680.6	653.3	633.2	631.4
55°	12067.5	8520.0	2819.3	1167.9	841.3	700.7	662.4	666.1	644.2	624.1	624.1
57.5°	12302.9	8427.0	2576.7	1149.6	854.0	702.5	649.6	664.2	645.9	627.7	627.7
60°	11797.5	7600.4	2122.3	1069.3	837.6	697.1	644.2	671.5	669.8	651.5	649.6
62.5°	10268.3	6120.4	1646.0	950.8	780.9	669.8	629.6	669.8	689.8	684.3	682.5
65°	7914.2	4359.5	1257.2	822.9	704.4	624.1	591.2	627.7	655.1	662.4	660.6
67.5°	5136.9	2671.5	969.0	702.5	618.6	571.2	541.9	558.5	563.9	563.9	560.2
70°	2525.5	1438.0	771.9	591.2	531.0	514.6	498.2	489.1	479.9	472.6	472.6
72.5°	1246.3	939.7	635.1	500.0	458.1	450.7	447.1	436.2	428.9	419.7	416.1
75°	921.5	764.6	540.2	421.5	394.2	386.9	394.2	385.0	383.2	376.0	372.2
77.5°	757.2	651.5	465.3	361.3	337.6	324.8	335.8	337.6	339.5	328.5	324.8
80°	614.9	551.1	388.6	299.3	277.4	268.2	275.6	290.2	293.8	277.4	270.1
82.5°	443.5	450.7	313.9	233.6	215.3	208.0	222.7	240.9	244.5	220.8	215.3
85°	372.2	376.0	240.9	166.1	147.8	136.9	160.6	178.8	191.6	167.9	162.4
87.5°	155.1	220.8	138.6	93.1	82.2	71.1	85.8	94.8	114.9	105.9	104.1
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)