

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: P193805

Luminaire Tested: **GLEON-AF-07-LED-E1-SL4-8030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193805
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-07-LED-E1-SL4-8030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 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: 35811 lumens
Efficiency: N/A
Efficacy: 79.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G5

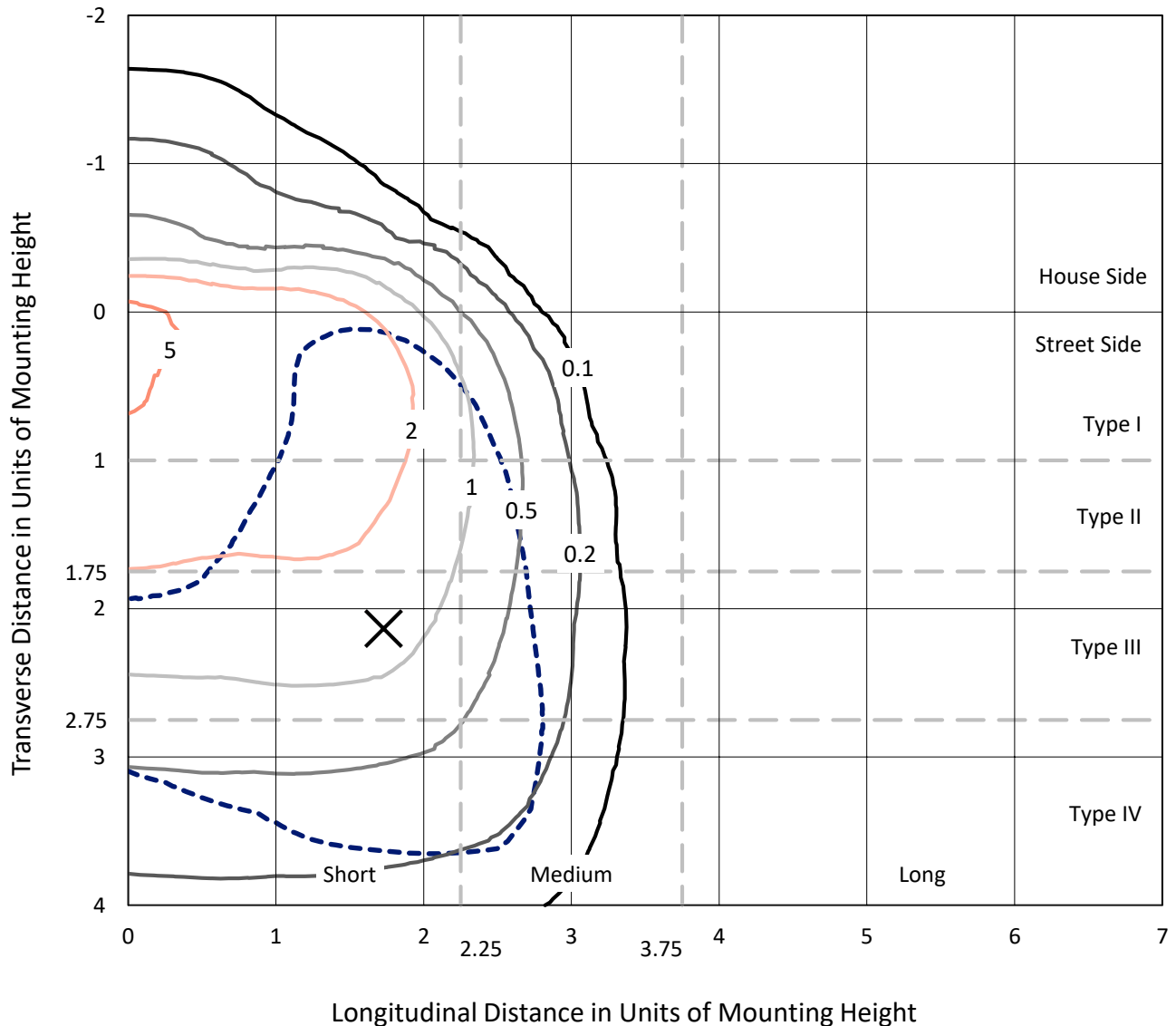
Input Watts (W): 448
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

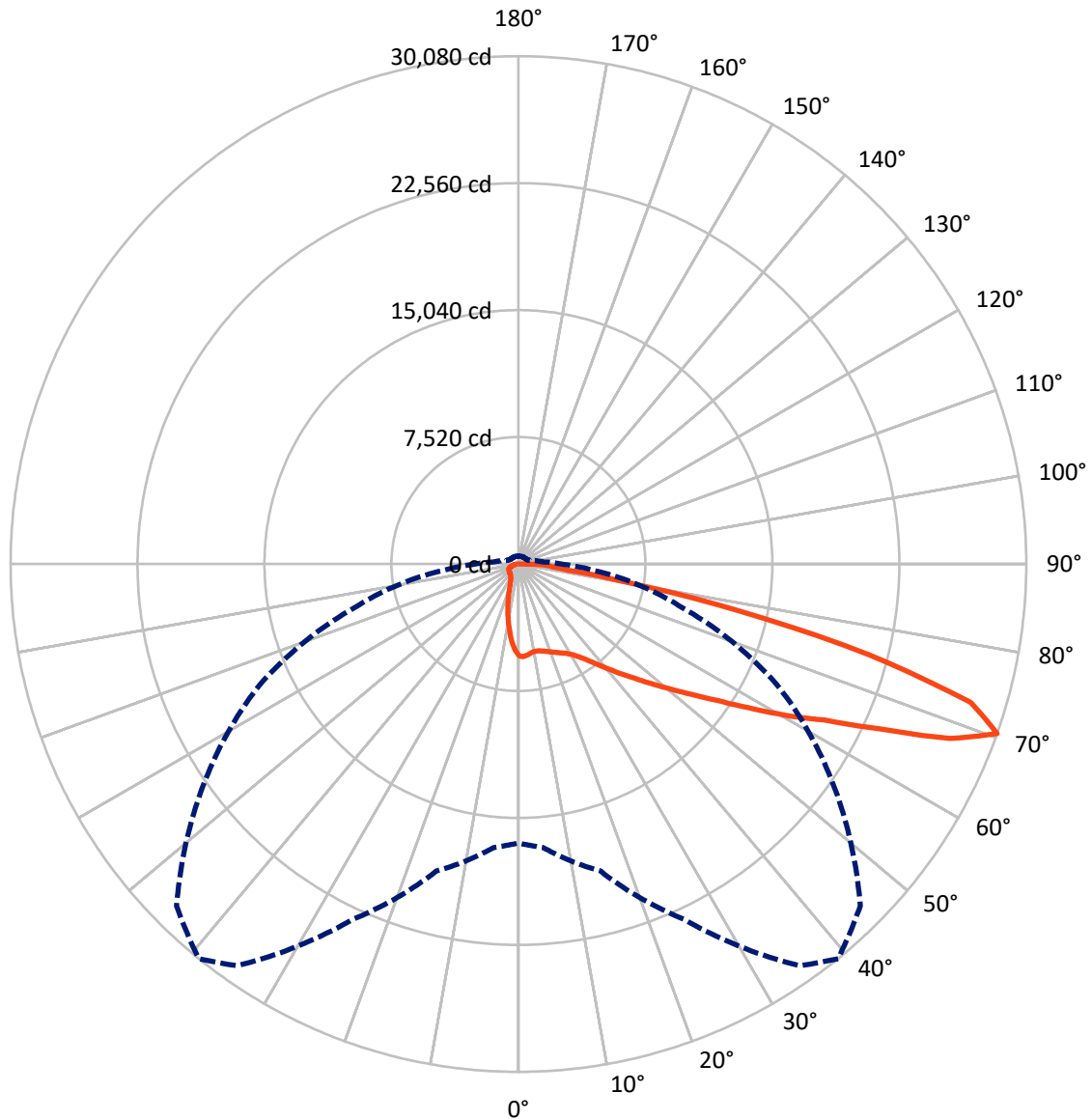


Based on 30 foot mounting height. Maximum calculated value = 6 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4072.9	0.0	4072.9
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	31738.1	0.0	31738.1
	% Fixture	88.6	0.0	88.6
Total	Lumens	35811.0	0.0	35811.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	466.6	1.3
10°-20°	1166.2	3.3
20°-30°	1815.9	5.1
30°-40°	2828.8	7.9
40°-50°	4749.1	13.3
50°-60°	7544.3	21.1
60°-70°	10063.3	28.1
70°-80°	6077.0	17.0
80°-90°	1099.8	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°	35811.0	100.0
0°-180°	35811.0	100.0



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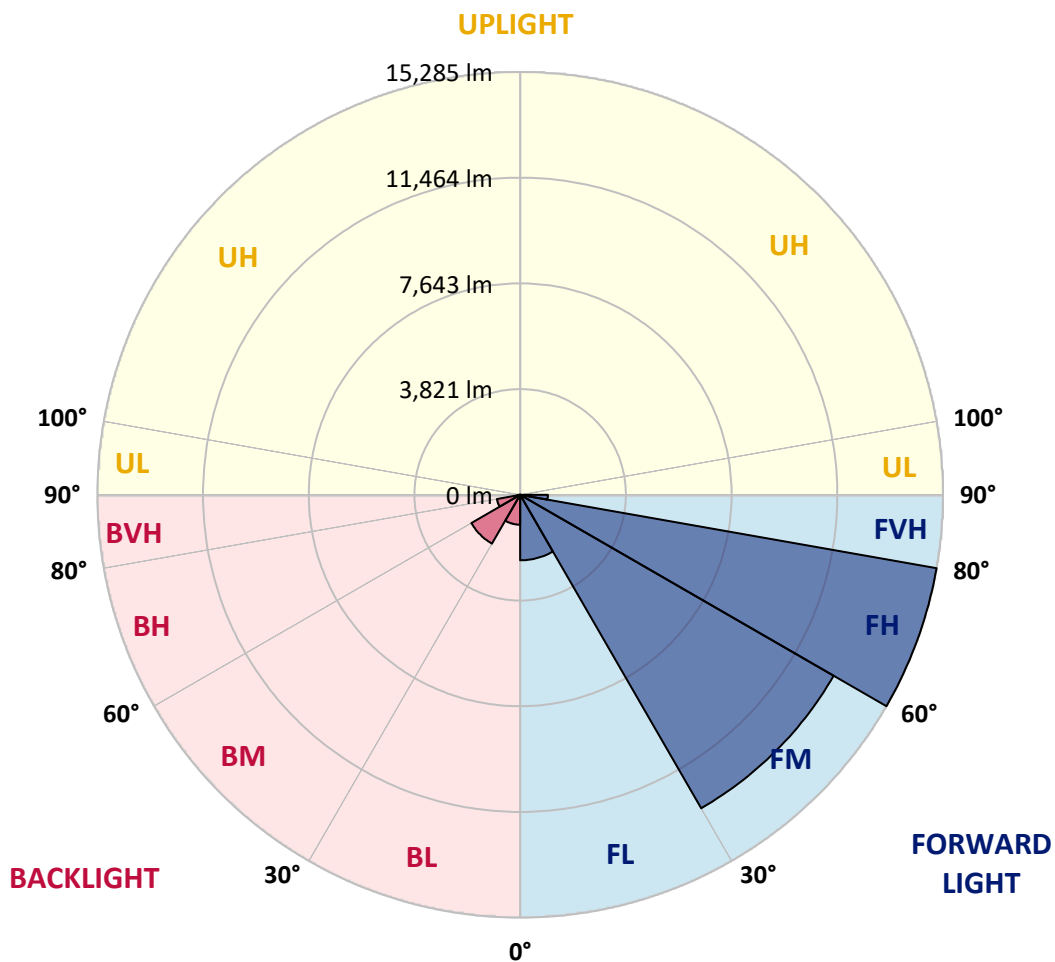
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2368.2	6.6			
FM	(30°-60°)	13084.0	36.5			
FH	(60°-80°)	15285.2	42.7			G5
FVH	(80°-90°)	1000.7	2.8			G5
BL	(0°-30°)	1080.5	3.0	B3/2500		
BM	(30°-60°)	2038.3	5.7	B2/2500		
BH	(60°-80°)	855.1	2.4	B2/1000		G2/1000
BVH	(80°-90°)	99.1	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°	5436.7	5436.7	5436.7	5436.7	5436.7	5436.7	5436.7	5436.7	5436.7	5436.7	5436.7
2.5°	5542.3	5540.4	5525.9	5515.0	5505.9	5502.2	5509.5	5482.2	5458.5	5429.4	5398.4
5°	5500.4	5498.6	5474.9	5453.1	5431.2	5423.9	5422.1	5372.9	5343.8	5300.1	5241.8
7.5°	5454.9	5445.8	5414.8	5378.4	5340.2	5322.0	5303.8	5240.0	5207.3	5163.6	5096.2
10°	5407.5	5396.6	5367.5	5331.1	5294.6	5267.3	5236.4	5174.5	5139.9	5107.1	5028.8
12.5°	5358.4	5349.3	5342.0	5325.6	5300.1	5276.4	5252.8	5200.0	5163.6	5125.3	5034.3
15°	5351.1	5347.4	5363.8	5374.8	5360.2	5345.6	5320.1	5274.6	5236.4	5198.2	5079.8
17.5°	5409.4	5407.5	5449.4	5478.5	5471.3	5445.8	5411.2	5360.2	5329.2	5296.5	5149.0
20°	5536.8	5545.9	5596.9	5635.1	5598.7	5562.3	5505.9	5434.8	5418.5	5403.9	5220.0
22.5°	5777.1	5786.2	5822.7	5837.2	5742.5	5689.7	5611.5	5520.4	5509.5	5520.4	5305.6
25°	6152.2	6143.1	6137.6	6083.0	5910.1	5828.1	5728.0	5633.3	5638.8	5687.9	5425.7
27.5°	6649.3	6600.1	6523.6	6359.8	6084.8	5993.8	5871.8	5784.4	5819.0	5913.7	5606.0
30°	7164.5	7109.9	6933.3	6665.6	6314.3	6214.1	6077.6	5979.2	6070.3	6219.6	5846.3
32.5°	7641.6	7634.3	7375.7	7031.6	6631.1	6543.7	6407.1	6296.0	6443.5	6671.1	6206.8
35°	8162.3	8178.7	7869.1	7455.8	7058.9	6967.9	6869.6	6785.8	6982.5	7295.6	6729.4
37.5°	8719.4	8752.2	8386.2	7920.1	7546.9	7508.6	7450.4	7414.0	7718.0	8151.4	7459.5
40°	9464.1	9431.3	8923.3	8444.5	8145.9	8144.1	8125.9	8169.6	8675.7	9269.3	8397.2
42.5°	10261.6	10165.1	9493.2	9007.1	8803.2	8865.1	8901.5	9079.9	9828.2	10627.5	9540.6
45°	11120.9	10904.3	10085.0	9602.5	9533.3	9664.4	9788.2	10176.0	11184.7	12173.3	10793.2
47.5°	11807.4	11598.0	10696.7	10227.0	10378.1	10576.6	10815.1	11428.6	12703.2	13770.1	12029.5
50°	12348.1	12211.6	11313.9	10955.3	11308.5	11614.4	12004.0	12847.0	14283.5	15325.0	13174.7
52.5°	12872.5	12770.5	11936.6	11701.8	12400.9	12823.3	13353.1	14369.1	15904.0	16854.4	14137.9
55°	13345.9	13273.0	12606.7	12632.1	13686.3	14236.2	14902.6	16102.4	17670.1	18218.1	14953.6
57.5°	13879.3	13786.5	13371.4	13799.2	15337.7	16051.5	16918.1	18050.6	19326.9	19430.7	15574.4
60°	14416.4	14336.3	14219.8	15146.6	17435.2	18185.3	19006.5	19938.7	21007.4	20372.0	15538.0
62.5°	14882.6	14891.7	15097.4	16561.3	19489.0	20357.5	21358.8	22280.1	22527.7	20535.9	14389.1
65°	15672.7	15816.6	16430.2	18564.0	22380.3	23541.9	24770.9	24623.4	22948.3	19004.7	11925.7
67.5°	16612.2	16865.3	18108.9	21233.2	26034.5	27576.6	28051.8	25153.2	21264.2	15448.8	8500.9
70°	16517.6	16865.3	18833.5	23223.3	29045.9	30080.1	28638.1	22764.4	16885.3	10092.2	4515.4
72.5°	14667.7	15164.8	17356.9	22311.1	28097.3	28006.3	24861.9	16970.9	10032.2	4052.9	1764.3
75°	11179.2	11681.7	13568.0	17626.4	22207.3	21442.6	17640.9	9374.9	3807.1	1609.5	1112.5
77.5°	6430.8	6820.4	8277.0	10809.6	14088.7	13304.0	9819.1	4169.4	1853.5	1121.6	868.5
80°	3590.5	3807.1	4692.0	5484.0	6904.2	6328.8	4393.4	2590.9	1383.7	813.9	670.0
82.5°	2838.5	3031.5	3794.4	3459.4	3153.5	2909.5	2523.5	2306.9	1105.2	513.4	400.6
85°	2479.8	2663.7	3211.7	2723.8	2153.9	1975.5	2050.1	2270.4	859.4	309.5	342.3
87.5°	2297.7	2543.5	2862.2	2099.3	1676.9	1485.7	1891.7	2488.9	276.7	193.0	138.4
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°	5436.7	5436.7	5436.7	5436.7	5436.7	5436.7	5436.7	5436.7	5436.7	5436.7	5436.7
2.5°	5371.1	5342.0	5294.6	5252.8	5187.2	5152.6	5114.4	5087.1	5065.2	5047.0	5076.2
5°	5205.4	5150.8	5050.7	4943.3	4815.8	4715.7	4631.9	4553.6	4499.0	4462.6	4488.1
7.5°	5048.9	4959.6	4803.1	4608.2	4389.8	4204.0	4051.1	3916.4	3823.5	3763.4	3787.1
10°	4959.6	4848.6	4606.4	4300.5	3978.3	3688.8	3448.4	3240.9	3097.0	3015.1	3027.9
12.5°	4937.8	4794.0	4458.9	4038.4	3597.7	3195.4	2856.7	2569.0	2366.9	2261.3	2265.0
15°	4954.2	4770.3	4320.6	3787.1	3230.0	2722.0	2299.6	1950.0	1715.1	1594.9	1593.1
17.5°	4981.5	4752.1	4174.9	3515.8	2856.7	2266.8	1795.2	1452.9	1245.4	1148.9	1141.6
20°	5010.6	4722.9	4011.0	3222.7	2468.9	1844.4	1405.6	1137.9	1006.9	954.1	950.4
22.5°	5052.5	4697.5	3841.7	2913.1	2088.4	1502.1	1156.2	975.9	906.7	879.4	875.8
25°	5119.9	4684.7	3661.5	2590.9	1746.1	1256.3	1006.9	895.8	855.7	837.5	835.7
27.5°	5232.7	4702.9	3492.1	2277.7	1467.5	1090.6	923.1	855.7	826.6	810.2	808.4
30°	5378.4	4759.4	3313.7	1980.9	1250.8	977.7	872.1	828.4	804.8	788.4	788.4
32.5°	5620.6	4854.0	3126.2	1724.2	1096.1	899.4	833.9	804.8	784.7	772.0	770.2
35°	5977.4	5032.5	2951.4	1511.2	985.0	843.0	801.1	779.3	764.7	757.4	757.4
37.5°	6496.3	5314.7	2796.6	1358.3	917.6	804.8	770.2	753.8	744.7	744.7	744.7
40°	7193.7	5704.3	2671.0	1256.3	879.4	777.4	746.5	733.7	728.3	730.1	730.1
42.5°	8054.9	6210.5	2587.2	1185.3	861.2	761.1	730.1	719.2	713.7	711.9	713.7
45°	9036.2	6785.8	2578.1	1132.5	843.0	750.1	719.2	708.3	697.3	690.1	690.1
47.5°	9990.3	7370.3	2652.8	1114.3	823.0	737.4	710.1	699.2	682.8	666.4	666.4
50°	10833.3	7867.3	2752.9	1121.6	815.7	719.2	695.5	690.1	664.6	646.4	644.5
52.5°	11503.3	8249.7	2834.9	1143.4	823.0	706.4	677.3	679.1	651.8	631.8	630.0
55°	12040.4	8500.9	2813.0	1165.3	839.4	699.2	660.9	664.6	642.7	622.7	622.7
57.5°	12275.3	8408.1	2570.9	1147.1	852.1	701.0	648.2	662.7	644.5	626.3	626.3
60°	11770.9	7583.3	2117.5	1066.9	835.7	695.5	642.7	670.0	668.2	650.0	648.2
62.5°	10245.2	6106.7	1642.3	948.6	779.3	668.2	628.1	668.2	688.2	682.8	680.9
65°	7896.5	4349.7	1254.5	821.1	702.8	622.7	589.9	626.3	653.6	660.9	659.1
67.5°	5125.3	2665.5	966.8	701.0	617.2	569.9	540.8	557.1	562.6	562.6	559.0
70°	2519.9	1434.7	770.2	589.9	529.8	513.4	497.1	488.0	478.8	471.6	471.6
72.5°	1243.6	937.7	633.6	498.9	457.0	449.7	446.1	435.2	427.9	418.8	415.1
75°	919.5	762.9	538.9	420.6	393.3	386.0	393.3	384.2	382.4	375.1	371.4
77.5°	755.6	650.0	464.3	360.5	336.8	324.1	335.0	336.8	338.7	327.7	324.1
80°	613.6	549.9	387.8	298.6	276.7	267.6	274.9	289.5	293.1	276.7	269.5
82.5°	442.4	449.7	313.2	233.1	214.8	207.6	222.1	240.3	244.0	220.3	214.8
85°	371.4	375.1	240.3	165.7	147.5	136.6	160.2	178.4	191.2	167.5	162.0
87.5°	154.8	220.3	138.4	92.9	81.9	71.0	85.6	94.7	114.7	105.6	103.8
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)