

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: P193788

Luminaire Tested: **GLEON-AF-10-LED-E1-SL4-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193788
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-10-LED-E1-SL4-8030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 3000K, 800mA 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: 36909 lumens
Efficiency: N/A
Efficacy: 88.1 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G5

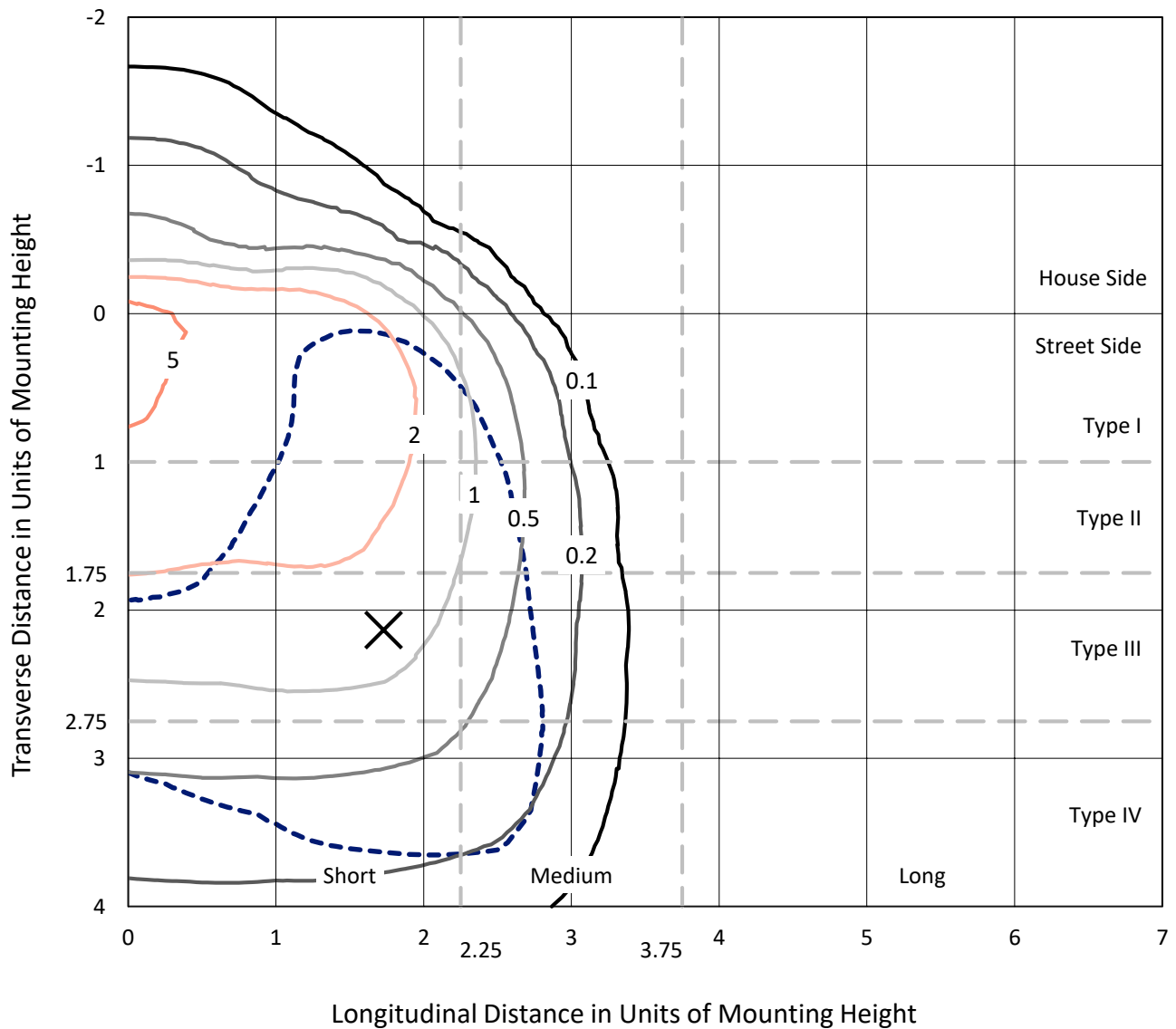
Input Watts (W): 419
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

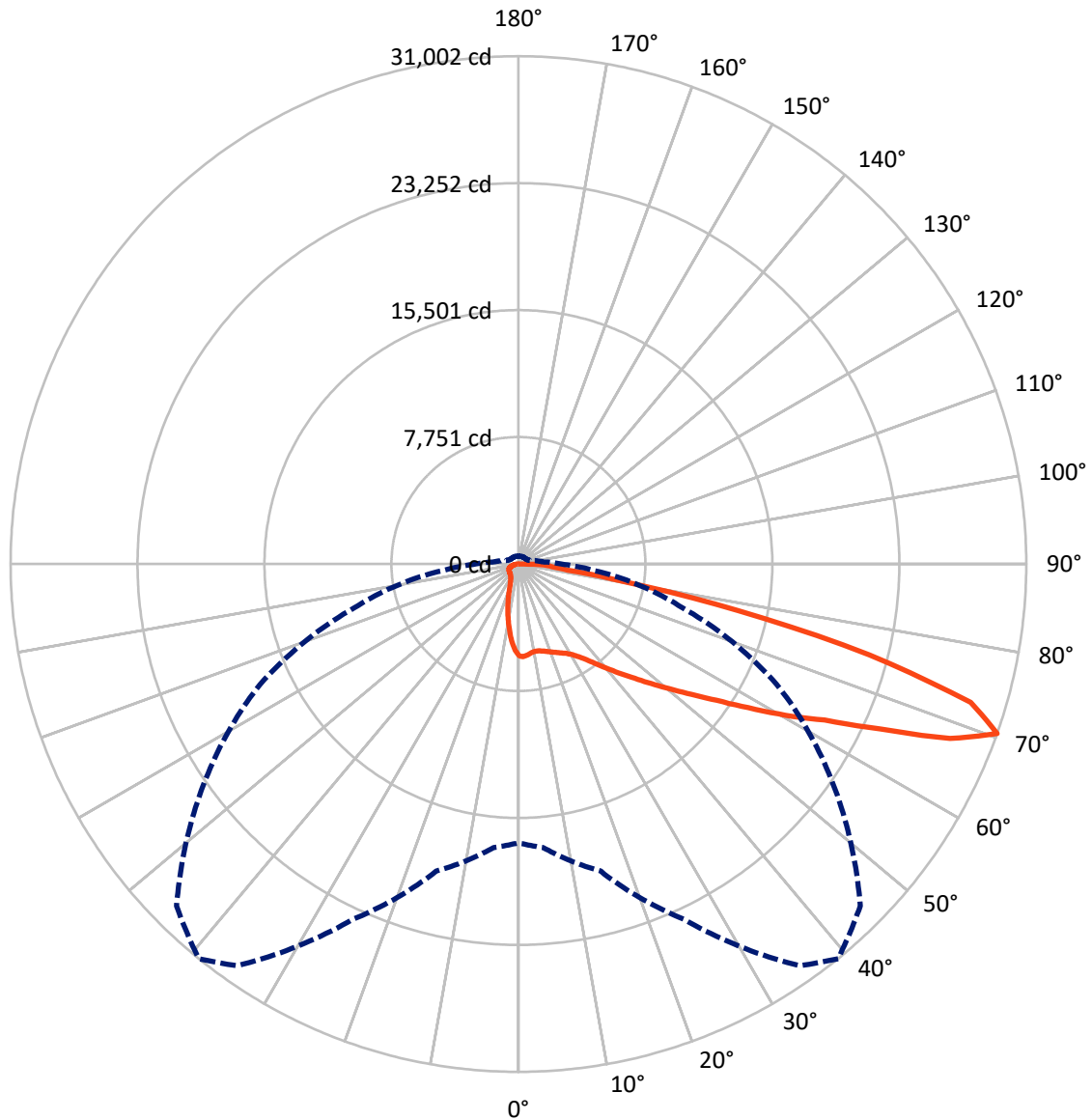


Based on 30 foot mounting height. Maximum calculated value = 6.2 fc
 Type IV - Short - Semi-Cutoff

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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	4197.8	0.0	4197.8
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	32711.2	0.0	32711.2
	% Fixture	88.6	0.0	88.6
Total	Lumens	36909.0	0.0	36909.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	480.9	1.3
10°-20°	1202.0	3.3
20°-30°	1871.6	5.1
30°-40°	2915.5	7.9
40°-50°	4894.7	13.3
50°-60°	7775.6	21.1
60°-70°	10371.8	28.1
70°-80°	6263.3	17.0
80°-90°	1133.6	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°	36909.0	100.0
0°-180°	36909.0	100.0



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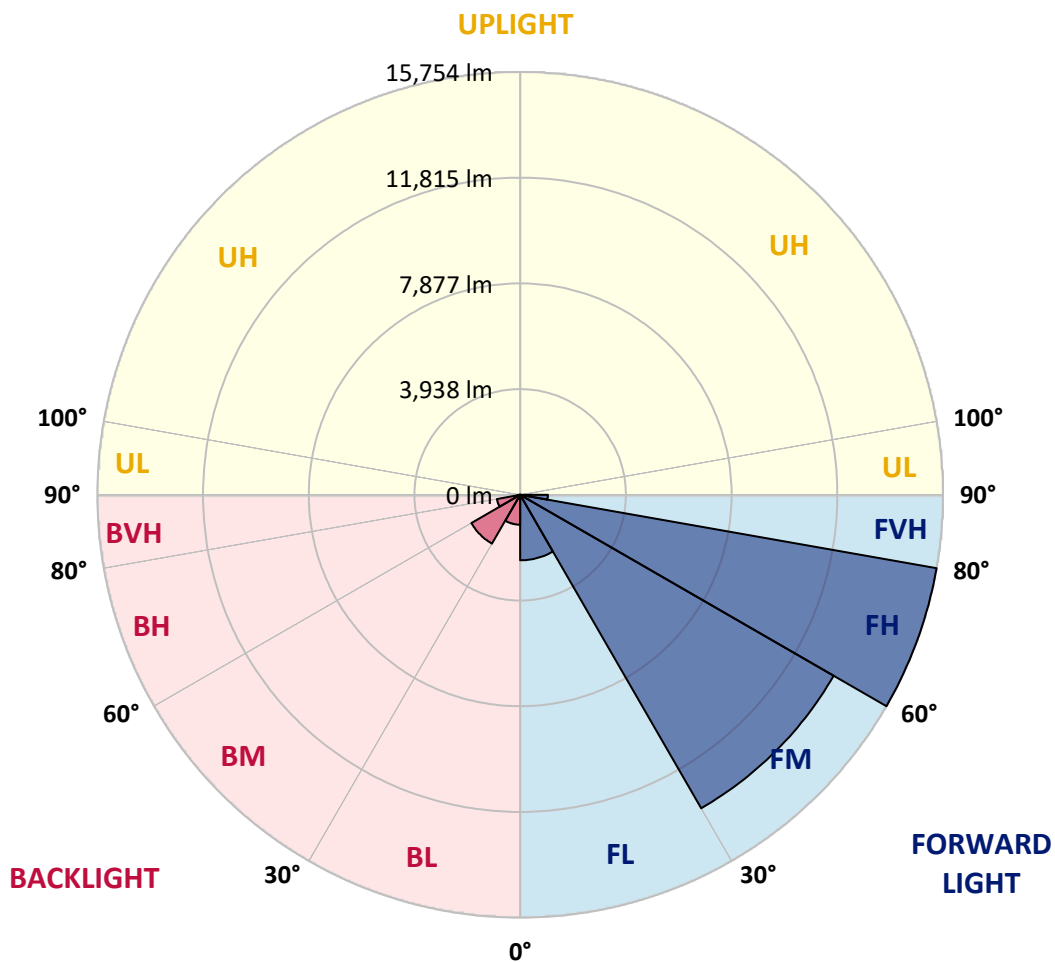
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2440.8	6.6			
FM	(30°-60°)	13485.1	36.5			
FH	(60°-80°)	15753.8	42.7			G5
FVH	(80°-90°)	1031.4	2.8			G5
BL	(0°-30°)	1113.6	3.0	B3/2500		
BM	(30°-60°)	2100.7	5.7	B2/2500		
BH	(60°-80°)	881.3	2.4	B2/1000		G2/1000
BVH	(80°-90°)	102.2	0.3			G2/225
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°	5603.4	5603.4	5603.4	5603.4	5603.4	5603.4	5603.4	5603.4	5603.4	5603.4	5603.4
2.5°	5712.2	5710.3	5695.3	5684.0	5674.7	5670.9	5678.4	5650.3	5625.9	5595.9	5564.0
5°	5669.0	5667.2	5642.8	5620.2	5597.7	5590.2	5588.3	5537.7	5507.7	5462.6	5402.6
7.5°	5622.1	5612.7	5580.8	5543.3	5503.9	5485.1	5466.4	5400.7	5366.9	5321.9	5252.4
10°	5573.3	5562.1	5532.0	5494.5	5457.0	5428.8	5396.9	5333.1	5297.5	5263.7	5183.0
12.5°	5522.7	5513.3	5505.8	5488.9	5462.6	5438.2	5413.8	5359.4	5321.9	5282.5	5188.6
15°	5515.2	5511.4	5528.3	5539.6	5524.5	5509.5	5483.3	5436.3	5396.9	5357.5	5235.6
17.5°	5575.2	5573.3	5616.5	5646.5	5639.0	5612.7	5577.1	5524.5	5492.6	5458.9	5306.9
20°	5706.6	5716.0	5768.5	5807.9	5770.4	5732.8	5674.7	5601.5	5584.6	5569.6	5380.0
22.5°	5954.3	5963.7	6001.2	6016.2	5918.6	5864.2	5783.5	5689.7	5678.4	5689.7	5468.2
25°	6340.8	6331.5	6325.8	6269.5	6091.3	6006.8	5903.6	5806.0	5811.7	5862.3	5592.1
27.5°	6853.1	6802.5	6723.7	6554.8	6271.4	6177.6	6051.9	5961.8	5997.4	6095.0	5777.9
30°	7384.2	7327.9	7145.9	6870.0	6507.9	6404.6	6263.9	6162.6	6256.4	6410.3	6025.6
32.5°	7875.9	7868.3	7601.9	7247.2	6834.4	6744.3	6603.6	6489.1	6641.1	6875.7	6397.1
35°	8412.5	8429.4	8110.4	7684.4	7275.4	7181.5	7080.2	6993.9	7196.5	7519.3	6935.7
37.5°	8986.8	9020.5	8643.4	8163.0	7778.3	7738.9	7678.8	7641.3	7954.7	8401.3	7688.2
40°	9754.3	9720.5	9196.9	8703.4	8395.7	8393.8	8375.0	8420.0	8941.7	9553.5	8654.6
42.5°	10576.2	10476.7	9784.3	9283.3	9073.1	9136.9	9174.4	9358.3	10129.6	10953.4	9833.1
45°	11461.9	11238.6	10394.2	9896.9	9825.6	9960.7	10088.3	10488.0	11527.6	12546.6	11124.1
47.5°	12169.4	11953.6	11024.7	10540.5	10696.3	10900.8	11146.7	11779.1	13092.6	14192.3	12398.3
50°	12726.7	12586.0	11660.8	11291.2	11655.2	11970.5	12372.0	13240.9	14721.5	15794.9	13578.7
52.5°	13267.2	13162.1	12302.6	12060.5	12781.1	13216.5	13762.6	14809.7	16391.6	17371.2	14571.4
55°	13755.1	13680.0	12993.2	13019.5	14106.0	14672.7	15359.5	16596.1	18211.9	18776.7	15412.1
57.5°	14304.9	14209.2	13781.3	14222.3	15808.0	16543.6	17436.8	18604.1	19919.5	20026.5	16052.0
60°	14858.5	14775.9	14655.8	15611.0	17969.8	18742.9	19589.2	20550.0	21651.6	20996.6	16014.4
62.5°	15338.9	15348.2	15560.3	17069.0	20086.5	20981.6	22013.7	22963.3	23218.5	21165.5	14830.3
65°	16153.3	16301.5	16933.9	19133.2	23066.5	24263.7	25530.4	25378.4	23652.0	19587.4	12291.4
67.5°	17121.6	17382.4	18664.1	21884.2	26832.7	28422.1	28911.9	25924.4	21916.1	15922.5	8761.6
70°	17024.0	17382.4	19411.0	23935.3	29936.5	31002.4	29516.1	23462.4	17403.1	10401.7	4653.8
72.5°	15117.4	15629.7	17889.1	22995.2	28958.8	28865.0	25624.2	17491.3	10339.8	4177.2	1818.4
75°	11522.0	12039.9	13984.0	18166.8	22888.2	22100.1	18181.8	9662.3	3923.9	1658.9	1146.6
77.5°	6628.0	7029.5	8530.8	11141.0	14520.7	13711.9	10120.2	4297.3	1910.3	1156.0	895.1
80°	3700.5	3923.9	4835.9	5652.1	7115.9	6522.9	4528.1	2670.3	1426.2	838.8	690.6
82.5°	2925.5	3124.4	3910.7	3565.4	3250.2	2998.7	2600.9	2377.6	1139.1	529.2	412.8
85°	2555.9	2745.4	3310.2	2807.3	2220.0	2036.0	2113.0	2340.0	885.7	319.0	352.8
87.5°	2368.2	2621.5	2949.9	2163.7	1728.3	1531.3	1949.7	2565.2	285.2	198.9	142.6
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°	5603.4	5603.4	5603.4	5603.4	5603.4	5603.4	5603.4	5603.4	5603.4	5603.4	5603.4
2.5°	5535.8	5505.8	5457.0	5413.8	5346.3	5310.6	5271.2	5243.1	5220.5	5201.8	5231.8
5°	5365.0	5308.7	5205.5	5094.8	4963.5	4860.2	4773.9	4693.2	4636.9	4599.4	4625.7
7.5°	5203.7	5111.7	4950.3	4749.5	4524.3	4332.9	4175.3	4036.4	3940.7	3878.8	3903.2
10°	5111.7	4997.2	4747.7	4432.4	4100.2	3801.9	3554.2	3340.2	3192.0	3107.6	3120.7
12.5°	5089.2	4940.9	4595.7	4162.2	3708.0	3293.3	2944.3	2647.8	2439.5	2330.7	2334.4
15°	5106.1	4916.5	4453.0	3903.2	3329.0	2805.4	2370.1	2009.8	1767.7	1643.9	1642.0
17.5°	5134.2	4897.8	4302.9	3623.6	2944.3	2336.3	1850.3	1497.5	1283.6	1184.1	1176.6
20°	5164.2	4867.8	4134.0	3321.5	2544.6	1900.9	1448.7	1172.8	1037.7	983.3	979.6
22.5°	5207.4	4841.5	3959.5	3002.5	2152.4	1548.1	1191.6	1005.8	934.5	906.4	902.6
25°	5276.8	4828.3	3773.7	2670.3	1799.6	1294.8	1037.7	923.3	882.0	863.2	861.3
27.5°	5393.2	4847.1	3599.2	2347.6	1512.5	1124.0	951.4	882.0	852.0	835.1	833.2
30°	5543.3	4905.3	3415.3	2041.7	1289.2	1007.7	898.9	853.8	829.4	812.5	812.5
32.5°	5792.9	5002.9	3222.0	1777.1	1129.7	927.0	859.5	829.4	808.8	795.7	793.8
35°	6160.7	5186.8	3041.9	1557.5	1015.2	868.8	825.7	803.2	788.1	780.6	780.6
37.5°	6695.5	5477.6	2882.4	1399.9	945.8	829.4	793.8	776.9	767.5	767.5	767.5
40°	7414.2	5879.2	2752.9	1294.8	906.4	801.3	769.4	756.2	750.6	752.5	752.5
42.5°	8301.8	6400.9	2666.6	1221.6	887.6	784.4	752.5	741.2	735.6	733.7	735.6
45°	9313.3	6993.9	2657.2	1167.2	868.8	773.1	741.2	730.0	718.7	711.2	711.2
47.5°	10296.6	7596.2	2734.1	1148.4	848.2	760.0	731.9	720.6	703.7	686.8	686.8
50°	11165.4	8108.5	2837.3	1156.0	840.7	741.2	716.8	711.2	684.9	666.2	664.3
52.5°	11856.0	8502.6	2921.8	1178.5	848.2	728.1	698.1	700.0	671.8	651.2	649.3
55°	12409.6	8761.6	2899.3	1201.0	865.1	720.6	681.2	684.9	662.4	641.8	641.8
57.5°	12651.7	8665.9	2649.7	1182.2	878.2	722.5	668.0	683.1	664.3	645.5	645.5
60°	12131.9	7815.8	2182.4	1099.7	861.3	716.8	662.4	690.6	688.7	669.9	668.0
62.5°	10559.3	6293.9	1692.6	977.7	803.2	688.7	647.4	688.7	709.3	703.7	701.8
65°	8138.6	4483.1	1292.9	846.3	724.3	641.8	608.0	645.5	673.7	681.2	679.3
67.5°	5282.5	2747.3	996.4	722.5	636.1	587.4	557.3	574.2	579.9	579.9	576.1
70°	2597.1	1478.7	793.8	608.0	546.1	529.2	512.3	502.9	493.5	486.0	486.0
72.5°	1281.7	966.4	653.0	514.2	471.0	463.5	459.8	448.5	441.0	431.6	427.9
75°	947.7	786.3	555.5	433.5	405.3	397.8	405.3	396.0	394.1	386.6	382.8
77.5°	778.8	669.9	478.5	371.6	347.2	334.0	345.3	347.2	349.0	337.8	334.0
80°	632.4	566.7	399.7	307.8	285.2	275.9	283.4	298.4	302.1	285.2	277.7
82.5°	456.0	463.5	322.8	240.2	221.4	213.9	228.9	247.7	251.5	227.1	221.4
85°	382.8	386.6	247.7	170.8	152.0	140.7	165.1	183.9	197.0	172.6	167.0
87.5°	159.5	227.1	142.6	95.7	84.4	73.2	88.2	97.6	118.2	108.8	107.0
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)