

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: P269724

Luminaire Tested: **GLEON-AF-10-LED-E1-SL4-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269724
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-SL4-7027-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 2700K, 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: 39297.5 lumens
Efficiency: N/A
Efficacy: 93.8 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

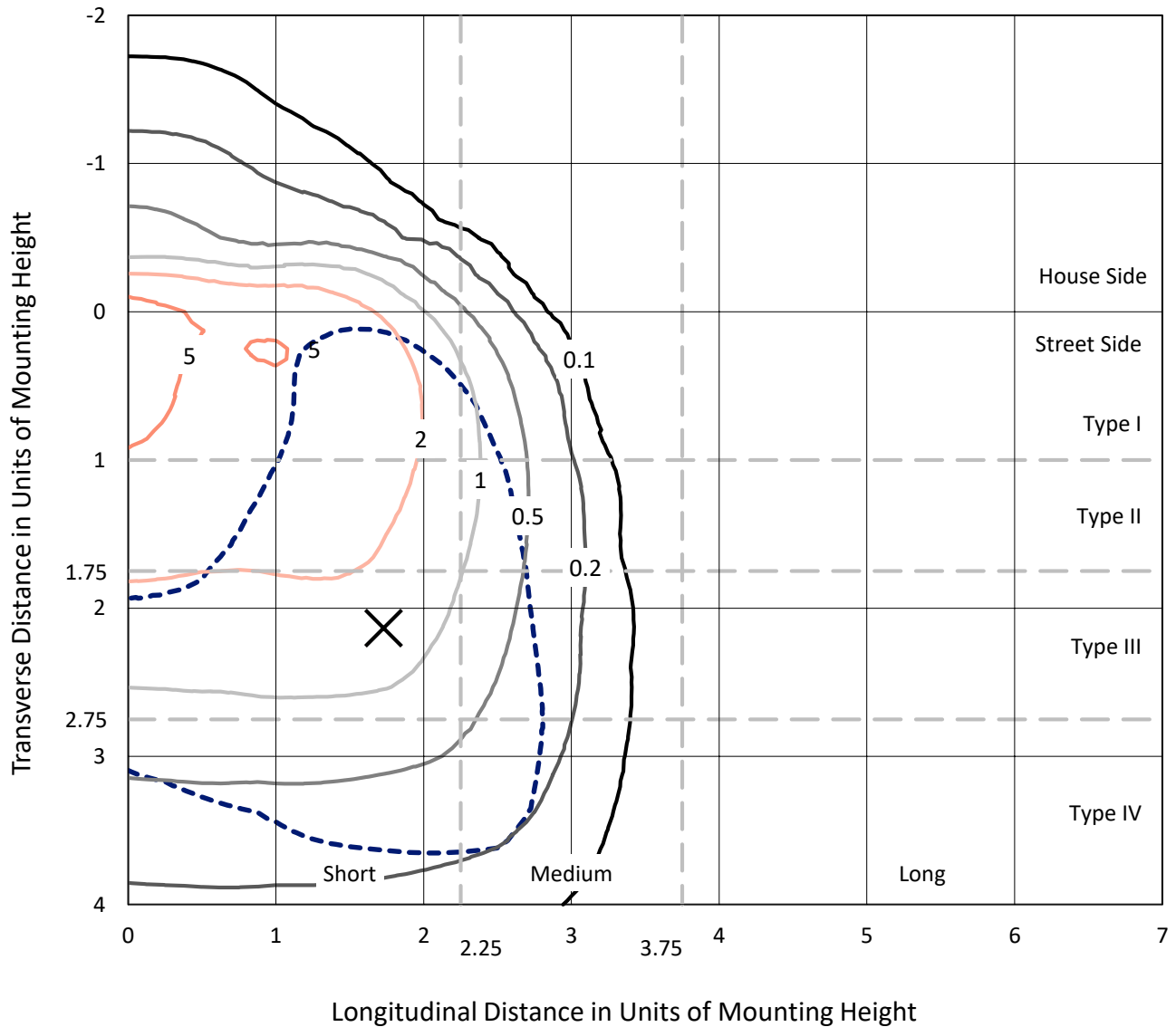


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

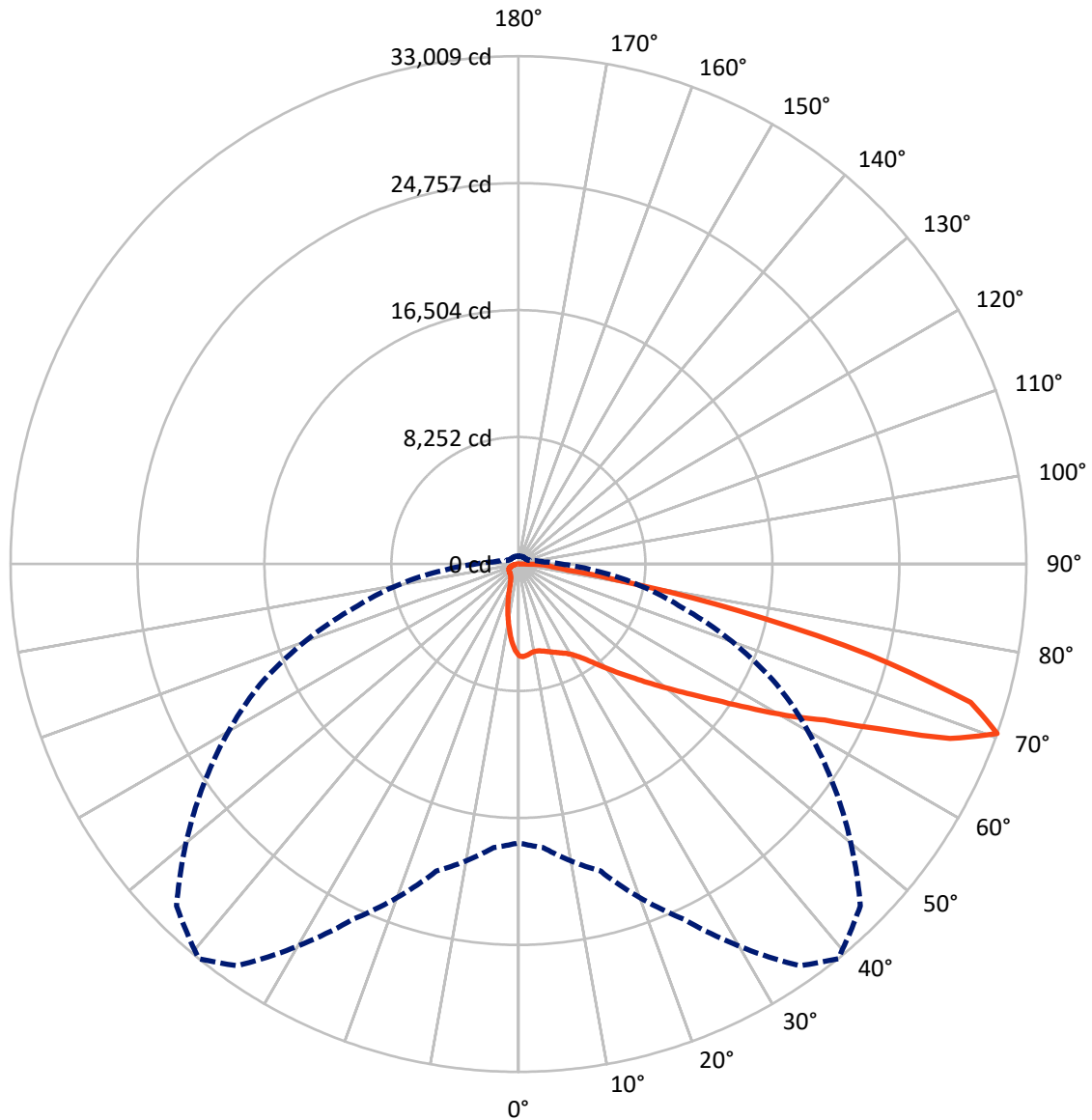


Based on 30 foot mounting height. Maximum calculated value = 6.6 fc
 Type IV - Short - Semi-Cutoff

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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	4469.5	0.0	4469.5
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	34828.1	0.0	34828.1
	% Fixture	88.6	0.0	88.6
Total	Lumens	39297.5	0.0	39297.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	512.0	1.3
10°-20°	1279.8	3.3
20°-30°	1992.7	5.1
30°-40°	3104.2	7.9
40°-50°	5211.5	13.3
50°-60°	8278.8	21.1
60°-70°	11043.0	28.1
70°-80°	6668.6	17.0
80°-90°	1206.9	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°	39297.5	100.0
0°-180°	39297.5	100.0



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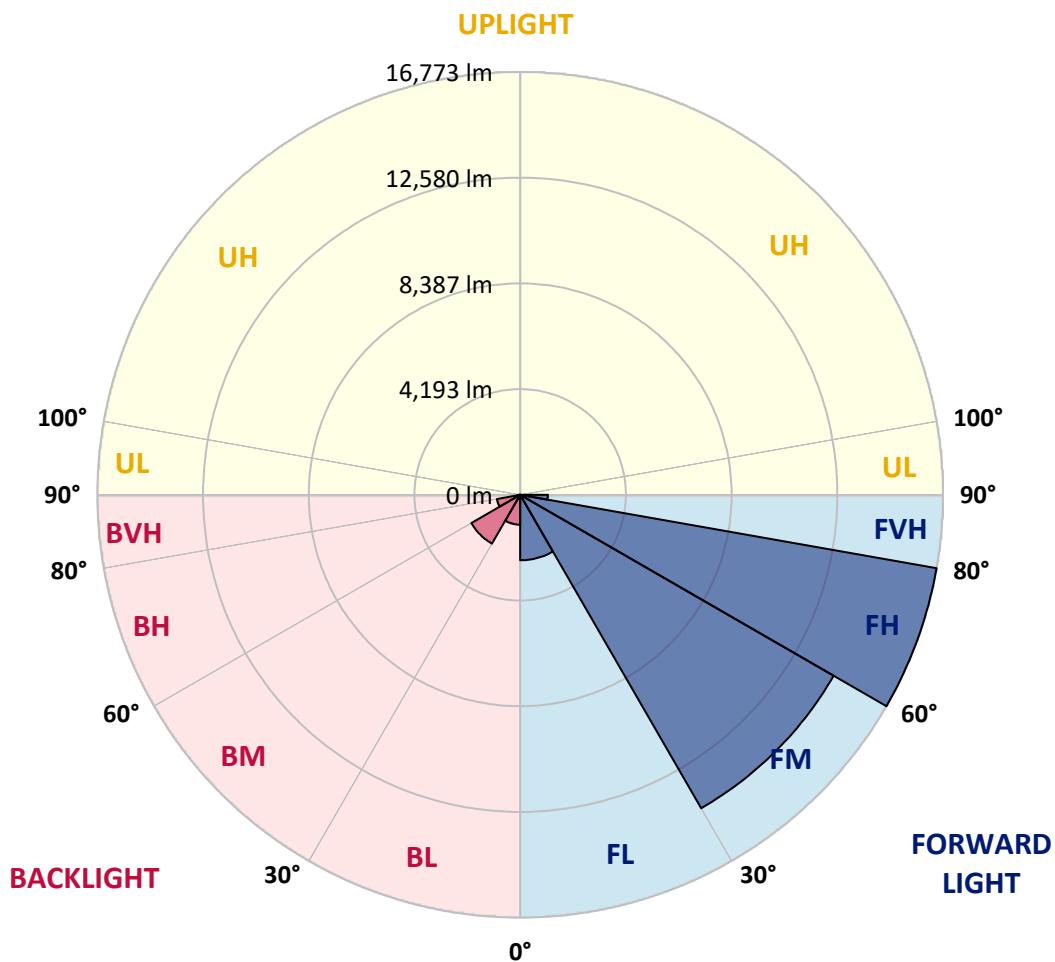
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2598.8	6.6			
FM	(30°-60°)	14357.8	36.5			
FH	(60°-80°)	16773.3	42.7			G5
FVH	(80°-90°)	1098.1	2.8			G5
BL	(0°-30°)	1185.7	3.0	B3/2500		
BM	(30°-60°)	2236.7	5.7	B2/2500		
BH	(60°-80°)	938.3	2.4	B2/1000		G2/1000
BVH	(80°-90°)	108.8	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°	5966.0	5966.0	5966.0	5966.0	5966.0	5966.0	5966.0	5966.0	5966.0	5966.0	5966.0
2.5°	6081.9	6079.9	6063.9	6051.9	6041.9	6037.9	6046.0	6015.9	5990.0	5958.0	5924.1
5°	6035.9	6033.9	6008.0	5984.0	5960.0	5952.0	5950.1	5896.0	5864.0	5816.2	5752.1
7.5°	5985.9	5976.0	5942.0	5902.0	5860.1	5840.2	5820.1	5750.2	5714.2	5666.2	5592.4
10°	5934.1	5922.0	5890.0	5850.1	5810.1	5780.1	5746.2	5678.2	5640.3	5604.3	5518.4
12.5°	5880.0	5870.1	5862.1	5844.2	5816.2	5790.1	5764.2	5706.3	5666.2	5624.3	5524.4
15°	5872.1	5868.1	5886.1	5898.0	5882.0	5866.1	5838.2	5788.1	5746.2	5704.2	5574.3
17.5°	5936.0	5934.1	5979.9	6011.9	6003.9	5976.0	5937.9	5882.0	5848.1	5812.2	5650.2
20°	6075.9	6085.8	6141.8	6183.8	6143.8	6103.9	6041.9	5963.9	5946.1	5930.0	5728.2
22.5°	6339.6	6349.6	6389.6	6405.5	6301.6	6243.7	6157.8	6057.9	6046.0	6057.9	5822.2
25°	6751.2	6741.2	6735.2	6675.2	6485.5	6395.6	6285.6	6181.7	6187.7	6241.8	5954.0
27.5°	7296.7	7242.7	7158.8	6978.9	6677.2	6577.4	6443.5	6347.7	6385.5	6489.4	6151.9
30°	7862.1	7802.0	7608.4	7314.5	6928.9	6819.2	6669.2	6561.4	6661.3	6825.1	6415.5
32.5°	8385.5	8377.6	8093.8	7716.3	7276.6	7180.7	7030.9	6909.0	7070.9	7320.6	6811.0
35°	8957.0	8975.0	8635.2	8181.8	7746.2	7646.3	7538.3	7446.5	7662.3	8006.0	7384.5
37.5°	9568.3	9604.3	9202.6	8691.2	8281.7	8239.7	8175.7	8135.8	8469.4	8945.0	8185.7
40°	10385.6	10349.6	9792.2	9266.6	8938.9	8937.0	8916.9	8964.9	9520.3	10171.7	9214.8
42.5°	11260.7	11154.8	10417.5	9884.1	9660.3	9728.1	9768.1	9963.9	10785.1	11662.2	10469.4
45°	12203.7	11966.0	11066.8	10537.4	10461.4	10605.3	10741.2	11166.7	12273.6	13358.5	11844.1
47.5°	12957.0	12727.1	11738.2	11222.6	11388.5	11606.3	11868.0	12541.3	13939.9	15110.7	13200.7
50°	13550.4	13400.5	12415.5	12021.8	12409.5	12745.2	13172.7	14097.8	15674.2	16817.0	14457.4
52.5°	14125.8	14013.9	13098.7	12841.0	13608.2	14071.8	14653.2	15768.0	17452.5	18495.4	15514.4
55°	14645.2	14565.3	13834.0	13861.9	15018.9	15622.2	16353.5	17670.2	19390.5	19991.8	16409.3
57.5°	15230.7	15128.7	14673.2	15142.6	16831.1	17614.2	18565.2	19807.9	21208.5	21322.4	17090.8
60°	15820.1	15732.0	15604.3	16621.2	19132.7	19955.8	20856.9	21879.8	23052.8	22355.4	17050.8
62.5°	16331.5	16341.4	16567.4	18173.6	21386.4	22339.4	23438.3	24449.3	24721.0	22535.2	15790.0
65°	17198.6	17356.5	18029.8	20371.5	24559.2	25833.8	27182.5	27020.7	25182.5	20855.0	13086.8
67.5°	18229.6	18507.3	19871.9	23300.4	28569.2	30261.5	30782.8	27602.1	23334.5	16952.9	9328.5
70°	18125.7	18507.3	20667.1	25484.2	31873.8	33008.7	31426.2	24980.7	18529.2	11074.8	4955.1
72.5°	16095.7	16641.2	19046.8	24483.2	30832.9	30733.0	27282.5	18623.2	11008.9	4447.5	1936.0
75°	12267.7	12819.1	14889.0	19342.5	24369.4	23530.3	19358.5	10287.6	4177.7	1766.2	1220.7
77.5°	7056.8	7484.5	9082.9	11861.9	15460.4	14599.3	10775.1	4575.3	2033.9	1230.8	953.0
80°	3940.1	4177.7	5148.7	6017.9	7576.3	6944.9	4821.2	2843.1	1518.5	893.0	735.3
82.5°	3114.9	3326.7	4163.9	3796.1	3460.5	3192.8	2769.2	2531.5	1212.8	563.4	439.5
85°	2721.2	2923.1	3524.4	2989.0	2363.6	2167.8	2249.7	2491.4	943.0	339.6	375.6
87.5°	2521.5	2791.2	3140.8	2303.7	1840.2	1630.3	2076.0	2731.2	303.6	211.8	151.9
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°	5966.0	5966.0	5966.0	5966.0	5966.0	5966.0	5966.0	5966.0	5966.0	5966.0	5966.0
2.5°	5894.0	5862.1	5810.1	5764.2	5692.3	5654.3	5612.3	5582.3	5558.4	5538.4	5570.4
5°	5712.2	5652.2	5542.5	5424.5	5284.6	5174.7	5082.9	4996.9	4937.1	4897.1	4925.0
7.5°	5540.3	5442.6	5270.6	5056.9	4817.2	4613.3	4445.5	4297.6	4195.8	4129.9	4155.7
10°	5442.6	5320.7	5054.9	4719.2	4365.7	4047.9	3784.2	3556.4	3398.6	3308.6	3322.7
12.5°	5418.5	5260.7	4893.1	4431.5	3948.1	3506.4	3134.8	2819.2	2597.4	2481.5	2485.5
15°	5436.5	5234.8	4741.3	4155.7	3544.4	2987.0	2523.5	2139.9	1882.0	1750.3	1748.2
17.5°	5466.5	5214.8	4581.4	3858.1	3134.8	2487.4	1970.1	1594.4	1366.6	1260.7	1252.7
20°	5498.4	5182.9	4401.5	3536.4	2709.3	2023.9	1542.4	1248.7	1104.8	1047.0	1042.9
22.5°	5544.3	5154.8	4215.7	3196.8	2291.7	1648.3	1268.8	1070.9	995.1	965.0	961.0
25°	5618.3	5140.8	4017.9	2843.1	1916.1	1378.5	1104.8	983.0	939.1	919.1	917.1
27.5°	5742.1	5160.9	3832.1	2499.4	1610.4	1196.8	1013.0	939.1	907.1	889.1	887.0
30°	5902.0	5222.7	3636.2	2173.8	1372.6	1072.9	957.1	909.1	883.2	865.1	865.1
32.5°	6167.8	5326.6	3430.5	1892.1	1202.8	987.0	915.1	883.2	861.1	847.1	845.1
35°	6559.3	5522.4	3238.7	1658.4	1080.9	925.1	879.1	855.1	839.1	831.1	831.1
37.5°	7128.8	5832.2	3068.9	1490.5	1007.0	883.2	845.1	827.2	817.2	817.2	817.2
40°	7894.0	6259.7	2931.0	1378.5	965.0	853.1	819.2	805.2	799.2	801.2	801.2
42.5°	8839.1	6815.1	2839.2	1300.7	945.0	835.2	801.2	789.3	783.2	781.3	783.2
45°	9916.0	7446.5	2829.1	1242.7	925.1	823.1	789.3	777.3	765.3	757.2	757.2
47.5°	10962.9	8087.8	2911.0	1222.8	903.1	809.3	779.2	767.2	749.2	731.3	731.3
50°	11888.0	8633.3	3020.9	1230.8	895.2	789.3	763.2	757.2	729.2	709.3	707.2
52.5°	12623.3	9052.8	3110.9	1254.8	903.1	775.1	743.3	745.2	715.3	693.3	691.2
55°	13212.7	9328.5	3086.8	1278.6	921.0	767.2	725.3	729.2	705.3	683.3	683.3
57.5°	13470.4	9226.8	2821.1	1258.7	935.0	769.2	711.3	727.3	707.2	687.4	687.4
60°	12917.0	8321.5	2323.6	1170.9	917.1	763.2	705.3	735.3	733.2	713.3	711.3
62.5°	11242.6	6701.3	1802.2	1041.0	855.1	733.2	689.3	733.2	755.2	749.2	747.2
65°	8665.2	4773.1	1376.7	901.1	771.3	683.3	647.4	687.4	717.2	725.3	723.2
67.5°	5624.3	2925.1	1060.9	769.2	677.3	625.4	593.4	611.3	617.3	617.3	613.5
70°	2765.3	1574.4	845.1	647.4	581.5	563.4	545.5	535.5	525.5	517.5	517.5
72.5°	1364.6	1029.0	695.3	547.4	501.6	493.4	489.4	477.4	469.5	459.6	455.5
75°	1008.9	837.1	591.4	461.5	431.5	423.6	431.5	421.6	419.6	411.7	407.7
77.5°	829.1	713.3	509.5	395.7	369.7	355.6	367.6	369.7	371.5	359.6	355.6
80°	673.3	603.4	425.5	327.7	303.6	293.7	301.7	317.7	321.7	303.6	295.7
82.5°	485.5	493.4	343.6	255.7	235.7	227.8	243.8	263.7	267.8	241.7	235.7
85°	407.7	411.7	263.7	181.7	161.9	149.8	175.8	195.8	209.8	183.9	177.9
87.5°	169.8	241.7	151.9	101.9	89.9	78.0	94.0	103.9	125.9	115.9	113.8
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)