

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: P192046

Luminaire Tested: **GLEON-AF-08-LED-E1-SL4-7050-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192046
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-08-LED-E1-SL4-7050-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5000K, 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: 36624 lumens
Efficiency: N/A
Efficacy: 109.7 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): 334
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

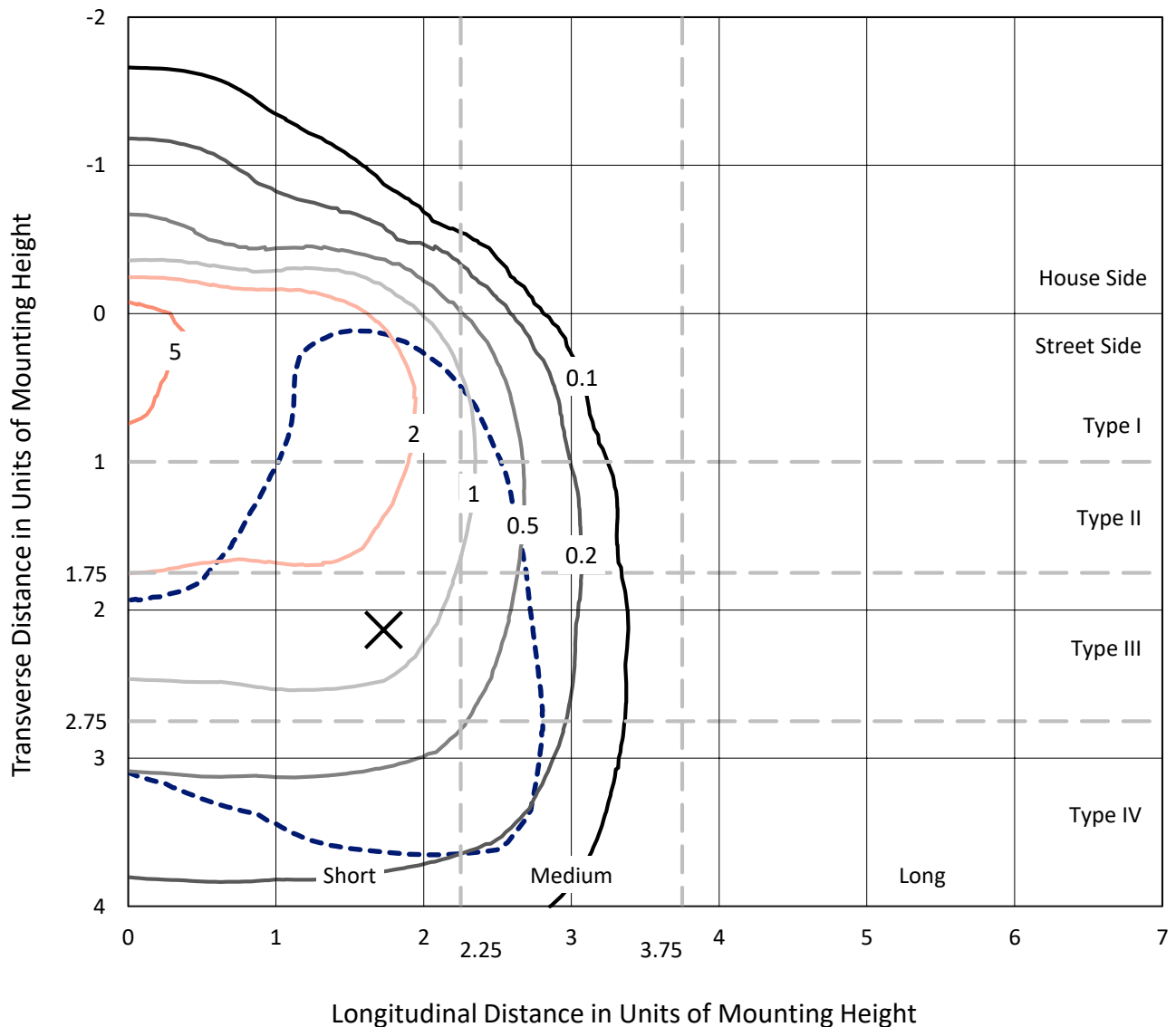


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

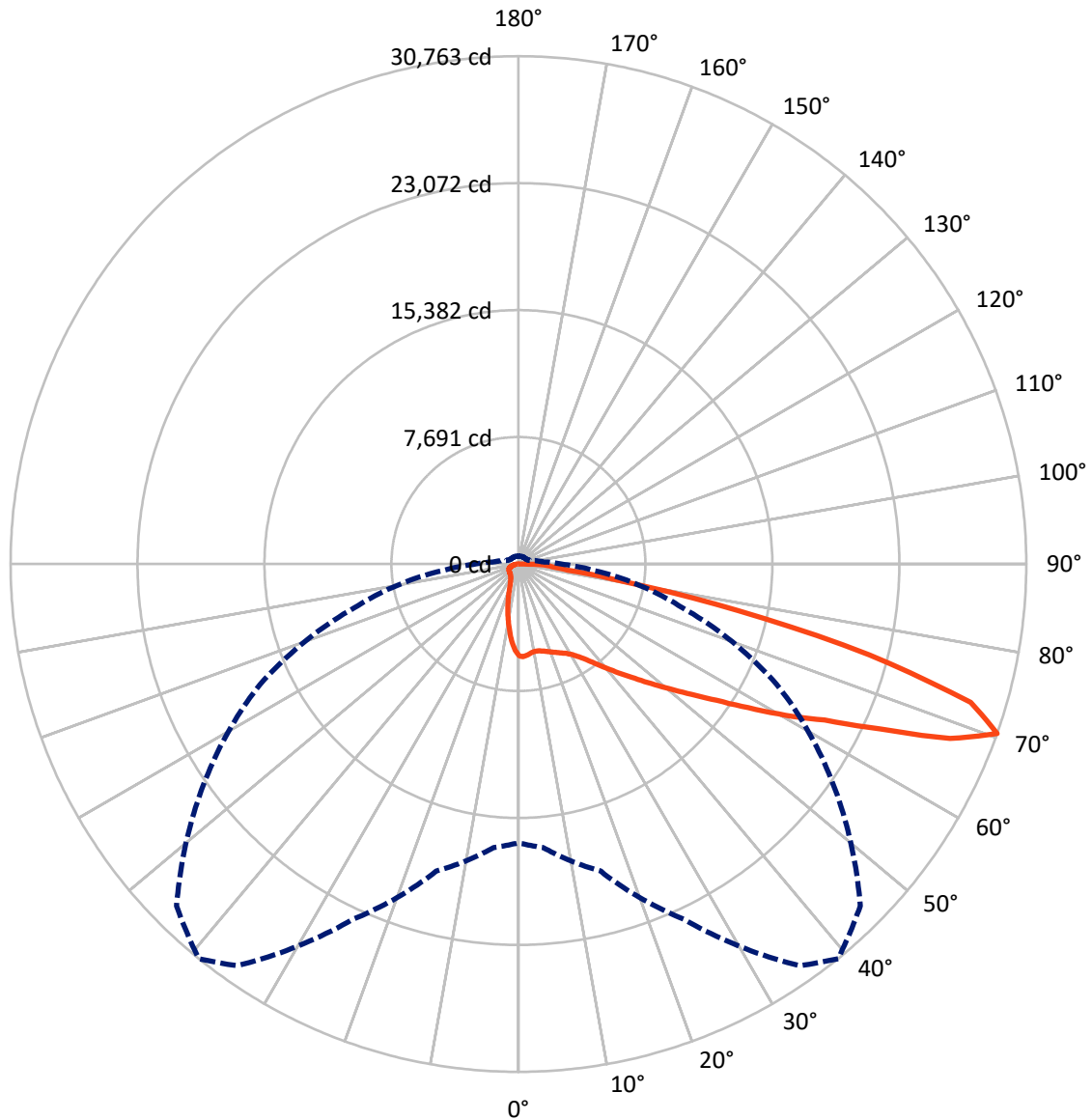


Based on 30 foot mounting height. Maximum calculated value = 6.2 fc
 Type IV - Short - Semi-Cutoff

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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	4165.4	0.0	4165.4
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	32458.6	0.0	32458.6
	% Fixture	88.6	0.0	88.6
Total	Lumens	36624.0	0.0	36624.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	477.2	1.3
10°-20°	1192.7	3.3
20°-30°	1857.1	5.1
30°-40°	2893.0	7.9
40°-50°	4856.9	13.3
50°-60°	7715.6	21.1
60°-70°	10291.7	28.1
70°-80°	6214.9	17.0
80°-90°	1124.8	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°	36624.0	100.0
0°-180°	36624.0	100.0



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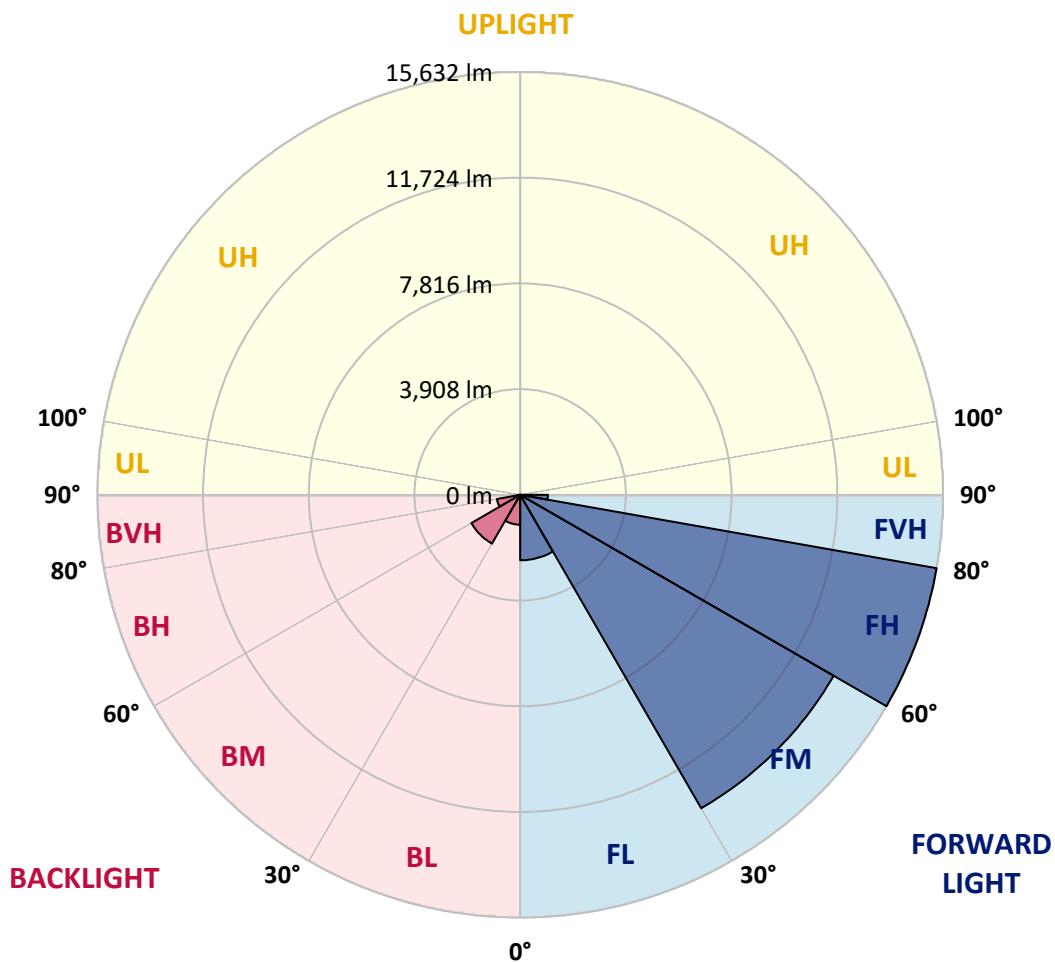
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2422.0	6.6			
FM	(30°-60°)	13381.0	36.5			
FH	(60°-80°)	15632.2	42.7			G5
FVH	(80°-90°)	1023.4	2.8			G5
BL	(0°-30°)	1105.0	3.0	B3/2500		
BM	(30°-60°)	2084.5	5.7	B2/2500		
BH	(60°-80°)	874.5	2.4	B2/1000		G2/1000
BVH	(80°-90°)	101.4	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°	5560.1	5560.1	5560.1	5560.1	5560.1	5560.1	5560.1	5560.1	5560.1	5560.1	5560.1
2.5°	5668.1	5666.2	5651.3	5640.2	5630.8	5627.1	5634.6	5606.6	5582.4	5552.6	5521.0
5°	5625.3	5623.4	5599.2	5576.8	5554.5	5547.1	5545.2	5494.9	5465.1	5420.4	5360.9
7.5°	5578.7	5569.4	5537.7	5500.5	5461.4	5442.8	5424.2	5359.0	5325.5	5280.8	5211.9
10°	5530.3	5519.1	5489.3	5452.1	5414.9	5386.9	5355.3	5292.0	5256.6	5223.1	5143.0
12.5°	5480.0	5470.7	5463.3	5446.5	5420.4	5396.2	5372.0	5318.0	5280.8	5241.7	5148.6
15°	5472.6	5468.9	5485.6	5496.8	5481.9	5467.0	5440.9	5394.4	5355.3	5316.2	5195.1
17.5°	5532.2	5530.3	5573.1	5602.9	5595.5	5569.4	5534.0	5481.9	5450.2	5416.7	5265.9
20°	5662.5	5671.8	5724.0	5763.1	5725.8	5688.6	5630.8	5558.2	5541.5	5526.6	5338.5
22.5°	5908.3	5917.6	5954.8	5969.7	5872.9	5818.9	5738.8	5645.7	5634.6	5645.7	5426.0
25°	6291.9	6282.6	6277.0	6221.1	6044.2	5960.4	5858.0	5761.2	5766.8	5817.1	5548.9
27.5°	6800.2	6749.9	6671.7	6504.2	6223.0	6129.9	6005.1	5915.7	5951.1	6047.9	5733.3
30°	7327.2	7271.3	7090.7	6817.0	6457.6	6355.2	6215.5	6115.0	6208.1	6360.8	5979.1
32.5°	7815.0	7807.6	7543.2	7191.2	6781.6	6692.2	6552.6	6439.0	6589.8	6822.6	6347.7
35°	8347.6	8364.3	8047.8	7625.1	7219.2	7126.1	7025.5	6939.9	7141.0	7461.2	6882.1
37.5°	8917.4	8950.9	8576.6	8099.9	7718.2	7679.1	7619.5	7582.3	7893.2	8336.4	7628.8
40°	9679.0	9645.4	9125.9	8636.2	8330.8	8329.0	8310.3	8355.0	8872.7	9479.7	8587.8
42.5°	10494.5	10395.8	9708.7	9211.6	9003.0	9066.3	9103.6	9286.1	10051.4	10868.8	9757.2
45°	11373.4	11151.8	10313.9	9820.5	9749.7	9883.8	10010.4	10407.0	11438.6	12449.7	11038.3
47.5°	12075.4	11861.3	10939.6	10459.2	10613.7	10816.7	11060.6	11688.1	12991.5	14082.7	12302.6
50°	12628.4	12488.8	11570.8	11204.0	11565.2	11878.0	12276.5	13138.6	14607.8	15672.9	13473.8
52.5°	13164.7	13060.4	12207.6	11967.4	12682.4	13114.4	13656.3	14695.3	16265.0	17237.0	14458.8
55°	13648.8	13574.4	12892.9	12918.9	13997.1	14559.4	15240.9	16468.0	18071.2	18631.7	15293.0
57.5°	14194.4	14099.5	13674.9	14112.5	15685.9	16415.9	17302.2	18460.4	19765.7	19871.8	15928.0
60°	14743.7	14661.8	14542.6	15490.4	17831.0	18598.2	19438.0	20391.3	21484.4	20834.5	15890.8
62.5°	15220.4	15229.7	15440.1	16937.2	19931.4	20819.6	21843.7	22785.9	23039.2	21002.1	14715.8
65°	16028.6	16175.7	16803.2	18985.5	22888.4	24076.3	25333.2	25182.4	23469.3	19436.1	12196.4
67.5°	16989.4	17248.2	18520.0	21715.3	26625.5	28202.7	28688.7	25724.3	21746.9	15799.5	8693.9
70°	16892.5	17248.2	19261.1	23750.5	29705.3	30763.0	29288.2	23281.3	17268.7	10321.4	4617.9
72.5°	15000.7	15509.0	17751.0	22817.6	28735.2	28642.1	25426.3	17356.2	10259.9	4144.9	1804.3
75°	11433.0	11946.9	13876.0	18026.5	22711.5	21929.4	18041.4	9587.7	3893.6	1646.1	1137.7
77.5°	6576.8	6975.3	8464.9	11055.0	14408.6	13606.0	10042.1	4264.1	1895.6	1147.0	888.2
80°	3672.0	3893.6	4798.5	5608.5	7060.9	6472.5	4493.1	2649.7	1415.2	832.3	685.2
82.5°	2902.9	3100.3	3880.5	3537.9	3225.1	2975.6	2580.8	2359.2	1130.3	525.1	409.7
85°	2536.1	2724.2	3284.7	2785.6	2202.8	2020.3	2096.7	2322.0	878.9	316.5	350.1
87.5°	2349.9	2601.3	2927.1	2146.9	1715.0	1519.4	1934.7	2545.4	283.0	197.4	141.5
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°	5560.1	5560.1	5560.1	5560.1	5560.1	5560.1	5560.1	5560.1	5560.1	5560.1	5560.1
2.5°	5493.1	5463.3	5414.9	5372.0	5305.0	5269.6	5230.5	5202.6	5180.2	5161.6	5191.4
5°	5323.6	5267.7	5165.3	5055.5	4925.1	4822.7	4737.1	4657.0	4601.1	4563.9	4590.0
7.5°	5163.5	5072.2	4912.1	4712.9	4489.4	4299.5	4143.1	4005.3	3910.3	3848.9	3873.1
10°	5072.2	4958.6	4711.0	4398.2	4068.6	3772.5	3526.7	3314.5	3167.4	3083.6	3096.6
12.5°	5049.9	4902.8	4560.2	4130.0	3679.4	3267.9	2921.6	2627.4	2420.7	2312.7	2316.4
15°	5066.6	4878.6	4418.7	3873.1	3303.3	2783.8	2351.8	1994.3	1754.1	1631.2	1629.3
17.5°	5094.6	4860.0	4269.7	3595.6	2921.6	2318.3	1836.0	1485.9	1273.6	1175.0	1167.5
20°	5124.4	4830.2	4102.1	3295.8	2524.9	1886.3	1437.5	1163.8	1029.7	975.7	972.0
22.5°	5167.2	4804.1	3928.9	2979.3	2135.8	1536.2	1182.4	998.1	927.3	899.4	895.6
25°	5236.1	4791.1	3744.6	2649.7	1785.7	1284.8	1029.7	916.1	875.2	856.5	854.7
27.5°	5351.5	4809.7	3571.4	2329.4	1500.8	1115.4	944.1	875.2	845.4	828.6	826.8
30°	5500.5	4867.4	3388.9	2025.9	1279.2	999.9	891.9	847.2	823.0	806.3	806.3
32.5°	5748.2	4964.2	3197.1	1763.4	1121.0	919.9	852.8	823.0	802.5	789.5	787.6
35°	6113.1	5146.7	3018.4	1545.5	1007.4	862.1	819.3	797.0	782.1	774.6	774.6
37.5°	6643.8	5435.3	2860.1	1389.1	938.5	823.0	787.6	770.9	761.6	761.6	761.6
40°	7357.0	5833.8	2731.6	1284.8	899.4	795.1	763.4	750.4	744.8	746.7	746.7
42.5°	8237.7	6351.5	2646.0	1212.2	880.8	778.3	746.7	735.5	729.9	728.1	729.9
45°	9241.4	6939.9	2636.7	1158.2	862.1	767.2	735.5	724.3	713.2	705.7	705.7
47.5°	10217.1	7537.6	2713.0	1139.6	841.6	754.1	726.2	715.0	698.3	681.5	681.5
50°	11079.2	8045.9	2815.4	1147.0	834.2	735.5	711.3	705.7	679.6	661.0	659.2
52.5°	11764.5	8437.0	2899.2	1169.4	841.6	722.5	692.7	694.5	666.6	646.1	644.3
55°	12313.8	8693.9	2876.9	1191.7	858.4	715.0	675.9	679.6	657.3	636.8	636.8
57.5°	12554.0	8599.0	2629.2	1173.1	871.4	716.9	662.9	677.8	659.2	640.5	640.5
60°	12038.2	7755.5	2165.6	1091.2	854.7	711.3	657.3	685.2	683.4	664.8	662.9
62.5°	10477.8	6245.3	1679.6	970.1	797.0	683.4	642.4	683.4	703.9	698.3	696.4
65°	8075.7	4448.4	1283.0	839.8	718.8	636.8	603.3	640.5	668.5	675.9	674.1
67.5°	5241.7	2726.0	988.8	716.9	631.2	582.8	553.0	569.8	575.4	575.4	571.7
70°	2577.1	1467.3	787.6	603.3	541.9	525.1	508.3	499.0	489.7	482.3	482.3
72.5°	1271.8	959.0	648.0	510.2	467.4	459.9	456.2	445.0	437.6	428.3	424.5
75°	940.3	780.2	551.2	430.1	402.2	394.8	402.2	392.9	391.0	383.6	379.9
77.5°	772.8	664.8	474.8	368.7	344.5	331.4	342.6	344.5	346.3	335.2	331.4
80°	627.5	562.3	396.6	305.4	283.0	273.7	281.2	296.1	299.8	283.0	275.6
82.5°	452.5	459.9	320.3	238.3	219.7	212.3	227.2	245.8	249.5	225.3	219.7
85°	379.9	383.6	245.8	169.4	150.8	139.7	163.9	182.5	195.5	171.3	165.7
87.5°	158.3	225.3	141.5	95.0	83.8	72.6	87.5	96.8	117.3	108.0	106.1
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)