

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: P191067

Luminaire Tested: **GLEON-AF-09-LED-E1-SL2-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191067
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24287)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-09-LED-E1-SL2-1200-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 49460.7 lumens
Efficiency: N/A
Efficacy: 86.0 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 575
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

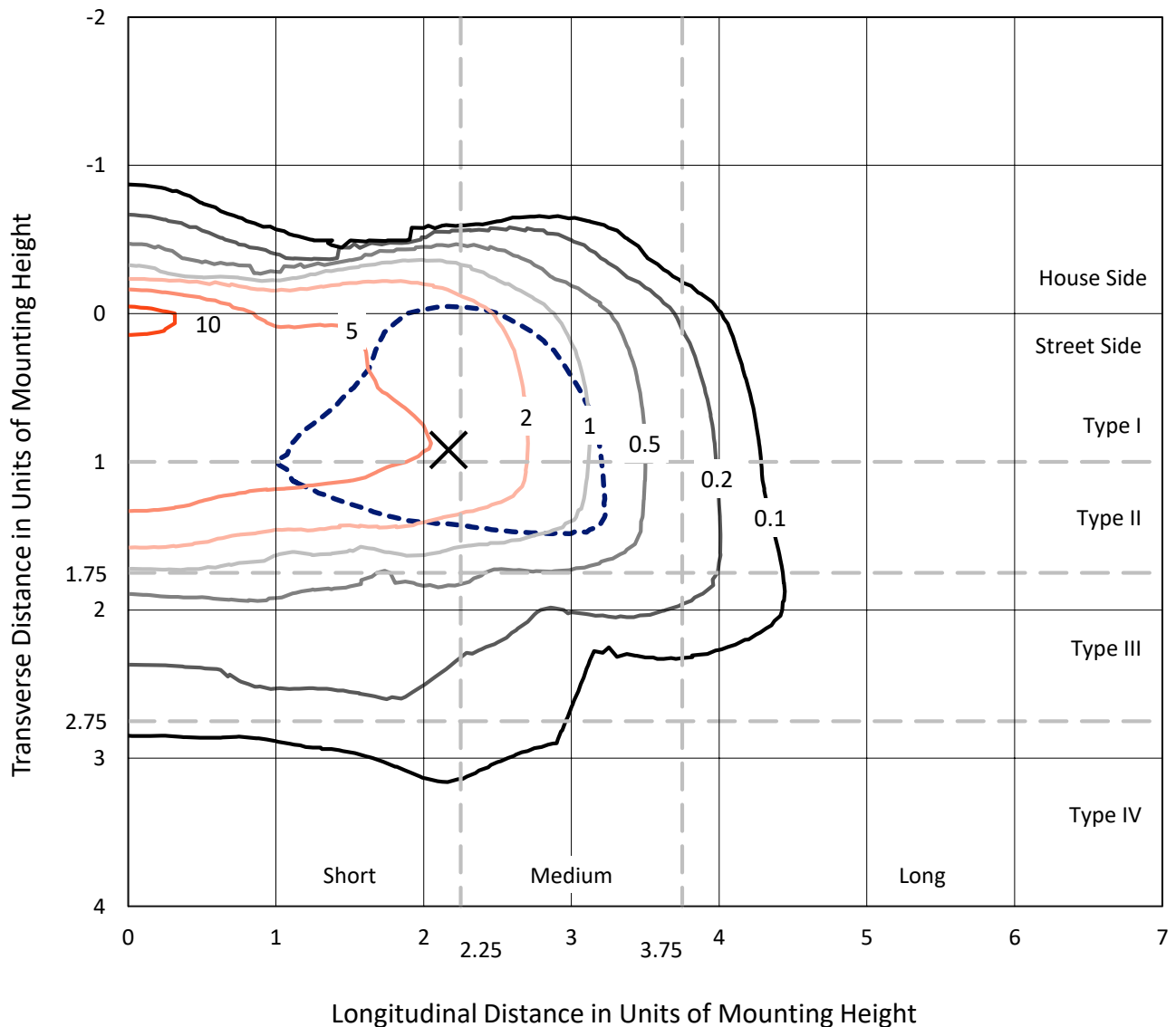


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Iso-Footcandle Lines of Horizontal Illumination

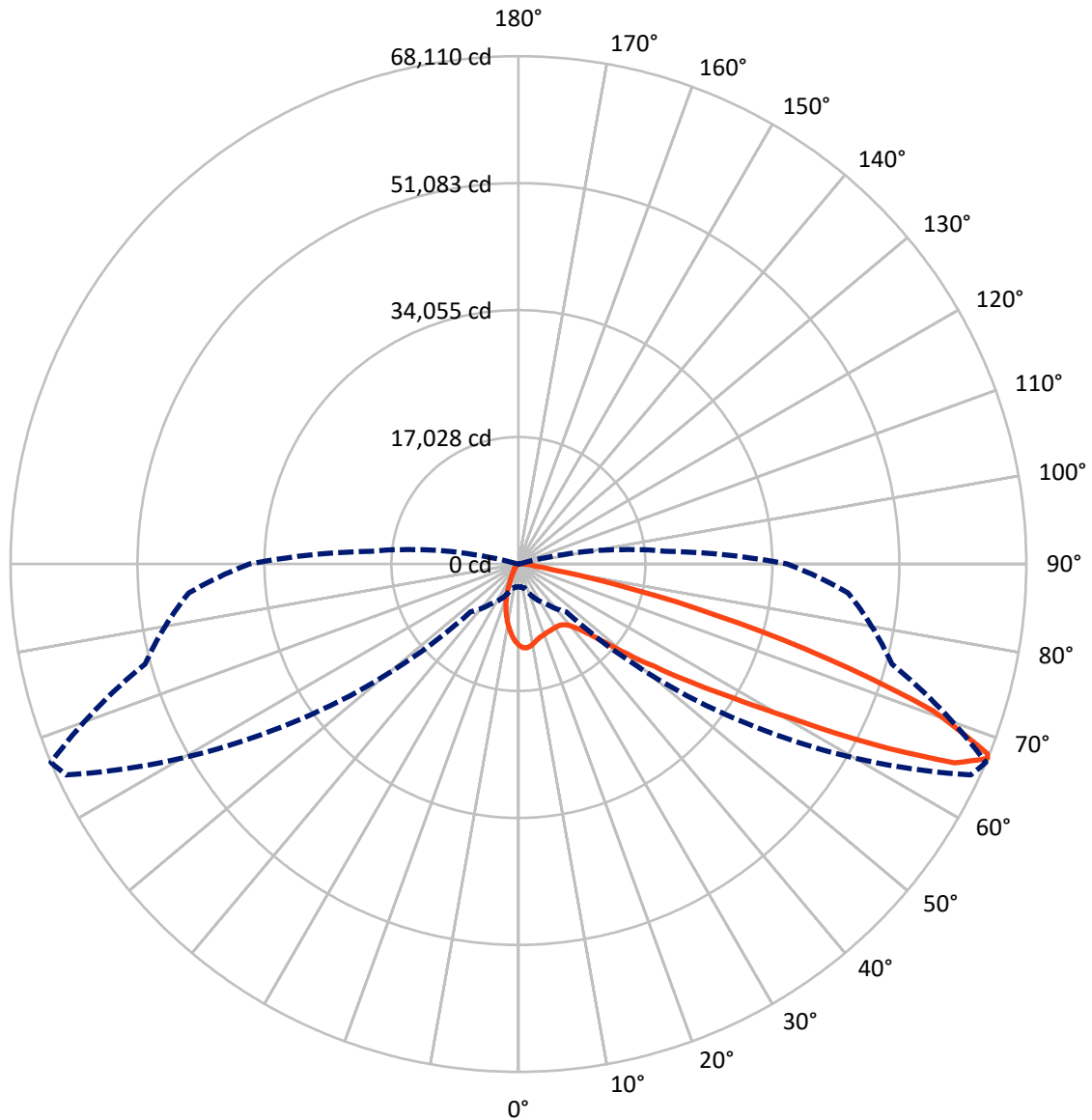
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12.1 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5135.5	0.0	5135.5
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	44325.2	0.0	44325.2
	% Fixture	89.6	0.0	89.6
Total	Lumens	49460.7	0.0	49460.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	887.6	1.8
10°-20°	1889.1	3.8
20°-30°	2746.5	5.6
30°-40°	4284.7	8.7
40°-50°	7590.1	15.3
50°-60°	12010.6	24.3
60°-70°	13756.5	27.8
70°-80°	5706.1	11.5
80°-90°	589.4	1.2
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°	49460.7	100.0
0°-180°	49460.7	100.0

Coefficient of Utilization



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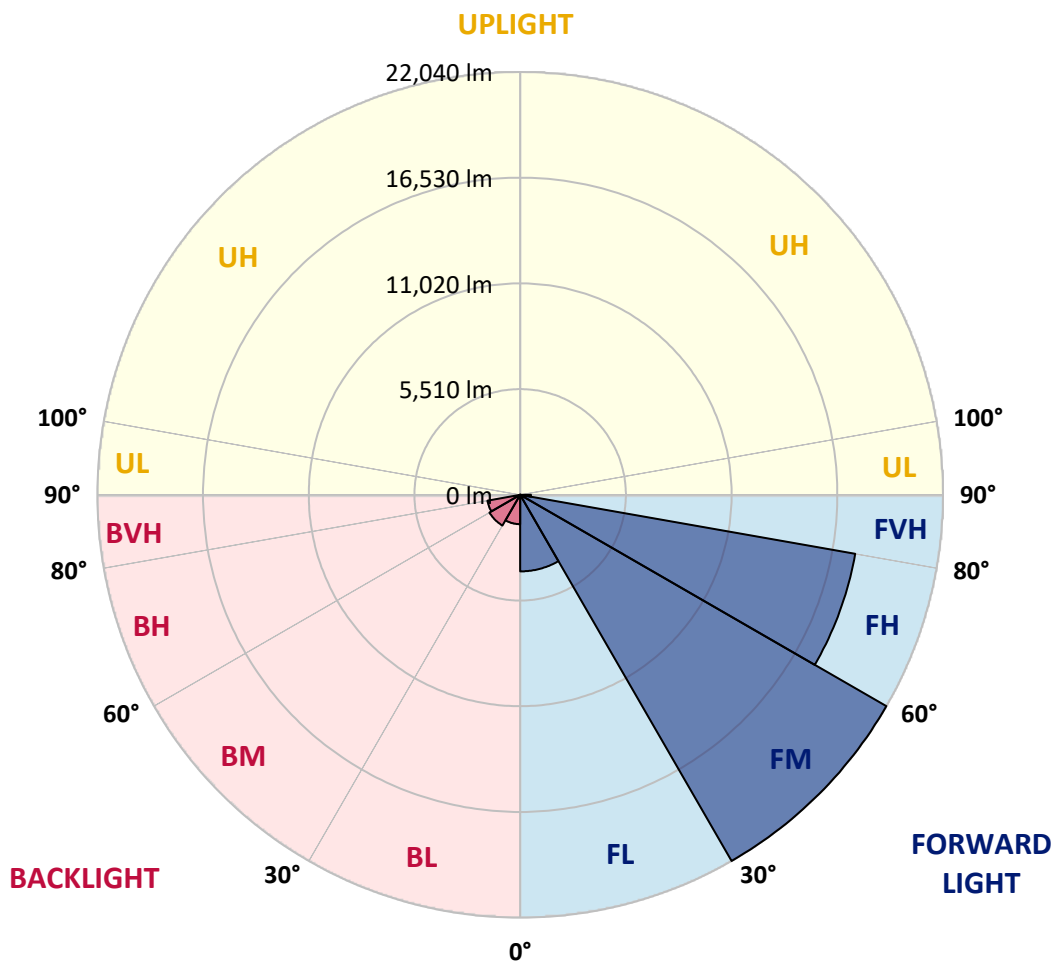
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3990.7	8.1			
FM	(30°-60°)	22039.8	44.6			
FH	(60°-80°)	17731.8	35.9			G5
FVH	(80°-90°)	562.9	1.1			G4/750
BL	(0°-30°)	1532.4	3.1	B3/2500		
BM	(30°-60°)	1845.7	3.7	B2/2500		
BH	(60°-80°)	1730.9	3.5	B3/2500		G3/2500
BVH	(80°-90°)	26.5	0.1			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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	10907.9	10907.9	10907.9	10907.9	10907.9	10907.9	10907.9	10907.9	10907.9	10907.9	10907.9
2.5°	11277.2	11300.2	11297.4	11314.7	11355.1	11357.9	11317.5	11239.7	11222.4	11121.4	10945.4
5°	10400.1	10466.5	10506.9	10671.3	10856.0	11078.1	11245.4	11306.1	11297.4	11225.2	10959.8
7.5°	9399.1	9465.5	9511.6	9704.9	9950.1	10330.9	10766.6	11124.3	11156.0	11233.9	10948.3
10°	8732.6	8744.2	8807.7	8992.4	9249.1	9638.5	10157.8	10783.8	10879.1	11164.7	10919.5
12.5°	8184.5	8193.2	8276.9	8476.0	8750.0	9142.3	9687.5	10411.7	10558.8	11078.1	10913.7
15°	7795.1	7826.8	7901.8	8109.5	8400.9	8790.4	9350.1	10137.6	10313.6	11046.4	10965.6
17.5°	7665.3	7699.9	7723.0	7872.9	8138.4	8519.2	9093.3	9958.7	10157.8	11063.7	11066.6
20°	7800.8	7826.8	7774.8	7812.4	7976.9	8317.2	8877.0	9805.9	10042.4	11083.9	11196.4
22.5°	8305.7	8317.2	8175.9	8011.4	7982.6	8170.1	8706.7	9684.7	9938.6	11138.7	11349.3
25°	9171.2	9151.0	8920.2	8565.4	8230.7	8144.1	8605.8	9609.7	9886.6	11196.4	11508.0
27.5°	10215.5	10244.3	9927.0	9410.6	8773.0	8317.2	8591.4	9578.0	9863.6	11236.8	11646.5
30°	11484.9	11525.3	11161.8	10512.7	9598.1	8744.2	8724.0	9572.2	9849.2	11210.8	11658.0
32.5°	12780.2	12829.2	12543.6	11874.3	10700.2	9459.6	9024.1	9635.7	9878.0	11121.4	11591.7
35°	14136.2	14205.4	14014.9	13440.9	12194.6	10492.5	9552.0	9828.9	10013.6	11112.7	11525.3
37.5°	16008.5	16071.9	15714.2	15105.5	14003.5	11877.3	10400.1	10192.5	10333.8	11251.2	11542.6
40°	18804.0	18795.3	17872.1	16940.3	15991.2	13637.1	11591.7	10850.2	10922.4	11669.5	11756.1
42.5°	21850.4	21836.0	20471.4	19054.9	18198.1	15803.7	13158.1	11986.8	11937.8	12439.8	12310.0
45°	24198.7	24195.9	23082.3	21487.0	20855.1	18290.5	15183.4	13567.8	13492.8	13691.9	13331.3
47.5°	25199.9	25217.2	24657.5	23535.2	23800.7	21654.2	17736.5	15858.4	15746.0	15665.2	15117.1
50°	24420.9	24455.5	24501.7	24282.4	25961.5	26175.0	21161.0	19086.7	19031.9	18671.2	17814.4
52.5°	21876.4	22052.4	22594.7	23290.0	26711.5	30513.9	26529.8	23096.7	22802.5	22418.8	21475.4
55°	17589.4	17782.7	18812.6	20500.3	25595.0	33364.2	34053.7	28266.5	27776.1	26630.8	25269.0
57.5°	11640.7	11940.7	13435.1	15581.5	22352.4	33822.8	41560.2	35441.4	33733.4	30597.6	29062.7
60°	6413.2	6701.7	8323.0	10267.5	16144.0	31555.4	46608.9	44782.7	41765.1	35031.7	33670.0
62.5°	3949.5	4105.2	5302.5	7111.3	9681.8	24905.6	47653.2	56521.5	53027.8	40741.0	39235.0
65°	3144.6	3210.9	3796.6	5813.1	6941.1	14814.1	44280.8	65470.5	64305.0	47653.2	44217.3
67°	3052.3	3078.3	3355.2	4990.9	6543.0	9081.8	37097.3	66927.4	68110.2	51836.4	44373.0
67.5°	3072.4	3101.3	3363.9	4763.1	6531.4	8346.1	34622.0	66353.3	67847.7	52168.1	43683.6
70°	2962.8	3052.3	3851.4	4760.1	6211.3	6935.4	20734.0	57490.9	59045.8	48472.5	37065.5
72.5°	1050.2	1055.9	1664.6	3851.4	6753.6	7010.4	10411.7	42145.9	43297.0	37079.9	26723.1
75°	623.2	530.8	553.9	1096.3	6453.6	6808.5	6006.5	26930.8	27360.7	21247.5	13533.2
77.5°	429.8	375.0	386.6	484.7	2457.9	6713.2	4771.7	14043.8	13585.1	7451.8	2882.1
80°	245.2	216.4	230.8	424.1	894.4	6263.2	4500.5	5694.9	4855.3	1263.5	796.3
82.5°	129.8	109.7	132.7	349.0	623.2	3903.3	4509.2	2752.2	2181.0	427.0	542.4
85°	46.1	37.5	63.4	239.5	415.4	1197.3	4180.3	2313.7	1817.5	207.8	412.6
87.5°	8.7	8.7	26.0	98.1	167.4	366.4	2472.4	1373.2	920.2	124.1	282.7
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°	10907.9	10907.9	10907.9	10907.9	10907.9	10907.9	10907.9	10907.9	10907.9	10907.9	10907.9
2.5°	10873.3	10749.3	10581.9	10377.1	10134.8	9921.3	9762.6	9598.1	9563.6	9505.9	9497.2
5°	10801.1	10587.6	10172.2	9696.2	9188.5	8729.8	8357.6	8025.9	7878.8	7751.8	7737.4
7.5°	10694.4	10374.2	9667.4	8900.0	8106.7	7385.4	6773.8	6341.1	5942.9	5752.6	5723.7
10°	10570.4	10111.7	9099.0	8034.6	6938.3	5919.9	5011.1	4249.5	3787.9	3513.8	3479.3
12.5°	10455.0	9854.9	8519.2	7137.3	5680.4	4318.7	3150.4	2423.4	1938.7	1742.5	1719.4
15°	10400.1	9647.2	7976.9	6220.0	4364.9	2749.4	1722.3	1332.8	1174.1	1128.0	1125.1
17.5°	10394.4	9471.2	7446.0	5270.8	3058.0	1598.3	1122.3	1024.2	992.4	980.9	980.9
20°	10391.5	9303.8	6915.1	4287.0	1941.6	1064.6	934.7	911.7	888.5	874.1	874.1
22.5°	10423.3	9153.9	6361.2	3283.1	1223.2	862.6	822.2	799.1	770.3	750.1	747.2
25°	10455.0	9038.5	5795.8	2336.8	885.7	750.1	709.7	677.9	637.6	611.6	608.8
27.5°	10460.7	8894.3	5189.9	1563.6	741.4	654.9	602.9	553.9	507.8	481.8	478.9
30°	10374.2	8651.9	4517.8	1055.9	654.9	568.4	499.1	447.1	403.9	383.7	383.7
32.5°	10204.0	8351.9	3779.3	796.3	582.8	487.5	412.6	363.5	334.6	326.0	323.2
35°	10051.1	8028.7	3020.6	675.0	522.2	412.6	337.6	305.8	288.5	285.6	282.7
37.5°	9961.7	7769.1	2308.0	611.6	464.5	346.2	285.6	262.5	253.9	248.1	251.0
40°	10030.9	7552.8	1705.0	559.7	406.7	288.5	242.3	230.8	222.2	219.2	219.2
42.5°	10333.8	7515.2	1266.5	513.5	352.0	239.5	210.6	201.9	196.2	193.3	196.2
45°	11130.0	7746.0	983.8	470.3	297.2	201.9	178.9	175.9	173.1	173.1	173.1
47.5°	12327.3	8222.1	819.3	421.1	248.1	173.1	155.8	152.9	150.1	152.9	152.9
50°	14355.4	9093.3	732.7	372.1	204.8	147.1	132.7	132.7	132.7	132.7	135.5
52.5°	17439.4	10807.0	675.0	323.2	167.4	124.1	112.5	112.5	115.4	115.4	118.3
55°	20875.4	13080.3	623.2	274.0	141.4	103.8	92.3	95.2	98.1	101.0	101.0
57.5°	24602.7	15598.8	579.9	225.0	121.1	83.7	77.8	80.8	83.7	89.4	89.4
60°	29100.3	18325.0	516.4	175.9	101.0	66.4	60.6	66.4	75.0	80.8	83.7
62.5°	34039.3	20961.9	435.7	138.5	83.7	52.0	49.0	60.6	72.1	77.8	80.8
65°	37414.6	21789.9	334.6	112.5	63.4	37.5	40.4	54.8	69.3	77.8	77.8
67°	36047.2	19755.9	274.0	95.2	52.0	28.8	37.5	54.8	69.3	75.0	77.8
67.5°	35098.1	18959.8	262.5	92.3	49.0	28.8	37.5	54.8	69.3	77.8	77.8
70°	28557.9	14242.9	219.2	69.3	40.4	26.0	31.7	52.0	66.4	75.0	75.0
72.5°	19842.5	8781.7	196.2	49.0	34.6	23.1	28.8	49.0	63.4	72.1	75.0
75°	9433.8	3179.2	167.4	37.5	31.7	20.2	26.0	49.0	63.4	72.1	72.1
77.5°	1924.3	738.6	135.5	31.7	26.0	20.2	23.1	46.1	60.6	69.3	69.3
80°	631.8	285.6	101.0	28.8	26.0	20.2	23.1	43.3	60.6	66.4	69.3
82.5°	455.8	144.2	66.4	28.8	26.0	20.2	20.2	43.3	57.7	66.4	66.4
85°	349.0	101.0	43.3	28.8	26.0	20.2	20.2	40.4	54.8	63.4	63.4
87.5°	230.8	40.4	34.6	28.8	26.0	20.2	20.2	40.4	52.0	60.6	63.4
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)