

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: P191066

Luminaire Tested: **GLEON-AF-08-LED-E1-SL2-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191066
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-08-LED-E1-SL2-1200-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 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: 44339.8 lumens
Efficiency: N/A
Efficacy: 86.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 511
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

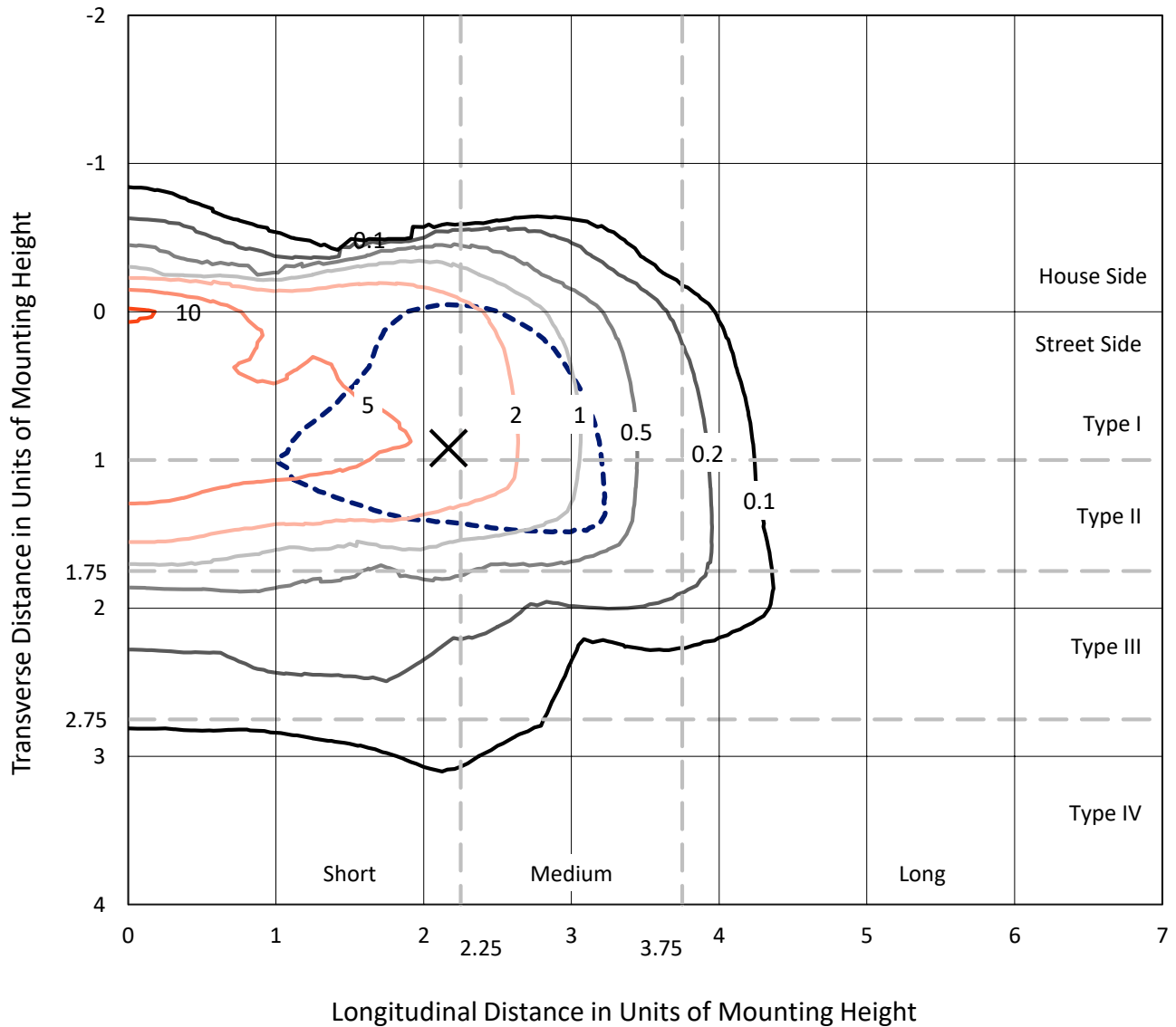


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

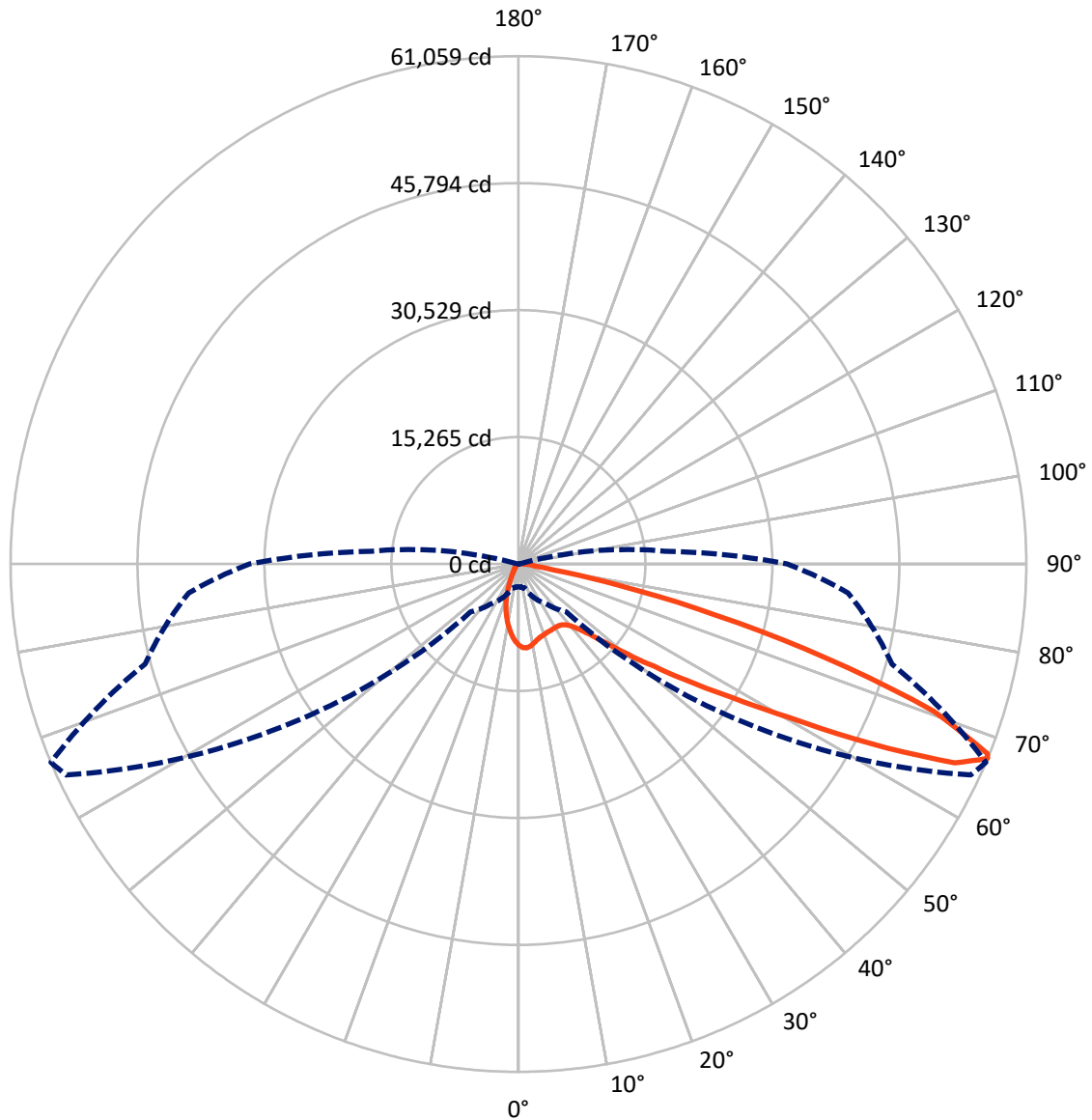


Based on 30 foot mounting height. Maximum calculated value = 10.9 fc
 Type II - Short - Semi-Cutoff

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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	4603.8	0.0	4603.8
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	39736.0	0.0	39736.0
	% Fixture	89.6	0.0	89.6
Total	Lumens	44339.8	0.0	44339.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	795.7	1.8
10°-20°	1693.5	3.8
20°-30°	2462.2	5.6
30°-40°	3841.1	8.7
40°-50°	6804.3	15.3
50°-60°	10767.1	24.3
60°-70°	12332.3	27.8
70°-80°	5115.3	11.5
80°-90°	528.4	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°	44339.8	100.0
0°-180°	44339.8	100.0

Coefficient of Utilization



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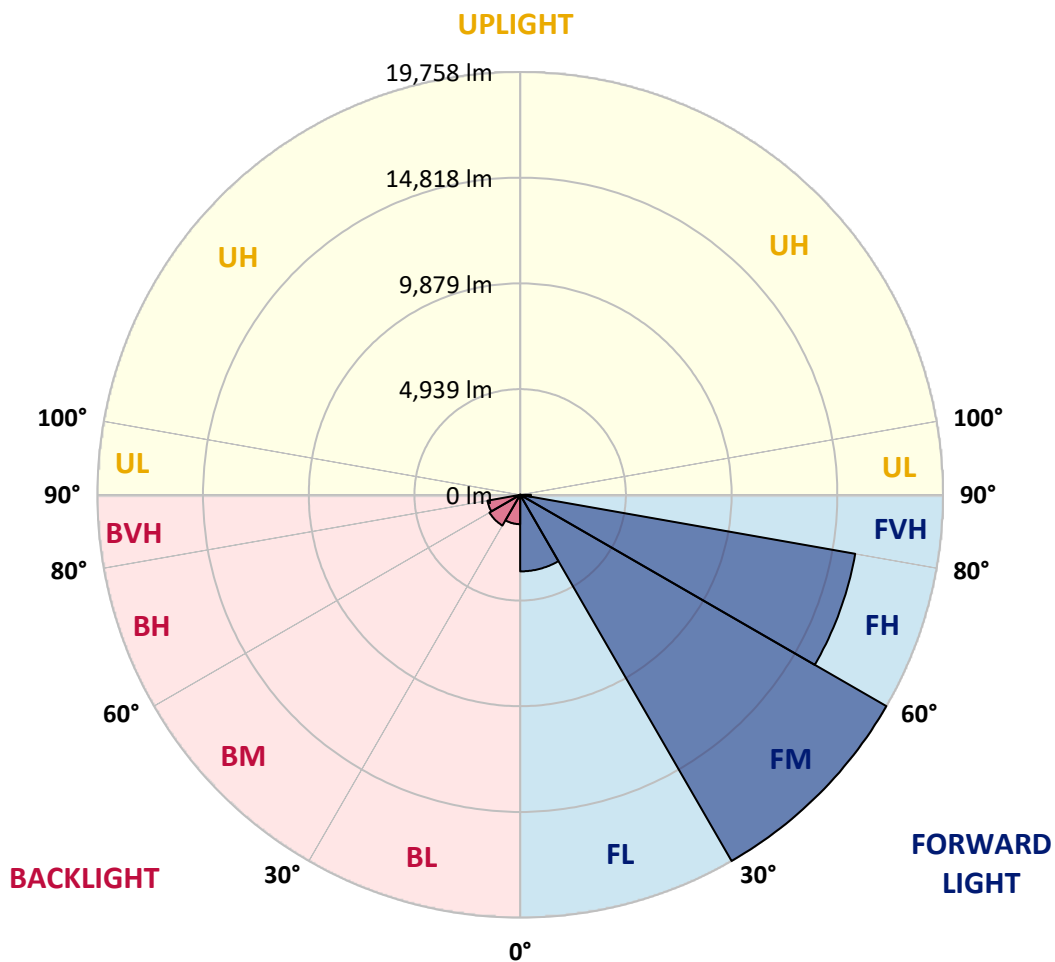
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3577.5	8.1			
FM (30°-60°)	19757.9	44.6			
FH (60°-80°)	15895.9	35.9			G5
FVH (80°-90°)	504.6	1.1			G4/750
BL (0°-30°)	1373.8	3.1	B3/2500		
BM (30°-60°)	1654.6	3.7	B2/2500		
BH (60°-80°)	1551.7	3.5	B3/2500		G3/2500
BVH (80°-90°)	23.8	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°	9778.6	9778.6	9778.6	9778.6	9778.6	9778.6	9778.6	9778.6	9778.6	9778.6	9778.6
2.5°	10109.6	10130.3	10127.7	10143.3	10179.4	10182.0	10145.8	10076.0	10060.4	9970.0	9812.1
5°	9323.4	9382.9	9419.1	9566.5	9732.0	9931.1	10081.2	10135.5	10127.7	10063.1	9825.1
7.5°	8425.9	8485.5	8526.8	8700.1	8919.9	9261.3	9651.8	9972.5	10001.0	10070.8	9814.8
10°	7828.5	7838.9	7895.7	8061.3	8291.5	8640.7	9106.1	9667.4	9752.7	10008.8	9788.9
12.5°	7337.1	7344.9	7419.9	7598.4	7844.1	8195.8	8684.5	9333.7	9465.7	9931.1	9783.7
15°	6988.0	7016.4	7083.7	7269.9	7531.2	7880.3	8382.0	9088.0	9245.8	9902.7	9830.3
17.5°	6871.7	6902.7	6923.3	7057.8	7295.8	7637.1	8151.8	8927.7	9106.1	9918.2	9920.8
20°	6993.2	7016.4	6969.9	7003.5	7150.9	7456.1	7957.8	8790.6	9002.7	9936.3	10037.2
22.5°	7445.8	7456.1	7329.4	7181.9	7156.2	7324.2	7805.2	8682.0	8909.6	9985.4	10174.3
25°	8221.7	8203.6	7996.6	7678.6	7378.5	7300.9	7714.8	8614.8	8863.1	10037.2	10316.5
27.5°	9157.9	9183.7	8899.3	8436.3	7864.8	7456.1	7701.8	8586.3	8842.4	10073.4	10440.6
30°	10295.8	10332.0	10006.2	9424.2	8604.4	7838.9	7820.8	8581.1	8829.4	10050.1	10451.0
32.5°	11457.0	11501.0	11245.0	10644.9	9592.3	8480.3	8089.8	8638.0	8855.3	9970.0	10391.5
35°	12672.5	12734.6	12564.0	12049.2	10932.1	9406.1	8563.0	8811.3	8976.8	9962.2	10332.0
37.5°	14351.1	14408.0	14087.3	13541.5	12553.6	10647.6	9323.4	9137.2	9263.9	10086.3	10347.6
40°	16857.1	16849.3	16021.8	15186.4	14335.5	12225.2	10391.5	9726.8	9791.5	10461.3	10539.0
42.5°	19588.2	19575.2	18351.9	17082.1	16314.0	14167.5	11795.9	10745.8	10701.8	11151.9	11035.5
45°	21693.4	21690.8	20692.5	19262.3	18696.0	16396.8	13611.4	12163.1	12095.9	12274.3	11951.0
47.5°	22590.7	22606.3	22104.5	21098.6	21336.5	19412.3	15900.2	14216.6	14115.7	14043.3	13551.8
50°	21892.5	21923.6	21964.9	21768.4	23273.6	23465.0	18970.0	17110.6	17061.4	16738.1	15970.0
52.5°	19611.4	19769.2	20255.4	20878.7	23945.9	27354.6	23783.0	20705.4	20441.6	20097.6	19251.9
55°	15768.3	15941.6	16864.9	18377.8	22945.1	29909.9	30527.9	25339.9	24900.3	23873.5	22652.8
57.5°	10435.4	10704.5	12044.1	13968.3	20038.2	30321.1	37257.3	31771.9	30240.9	27429.6	26053.7
60°	5749.2	6007.8	7461.3	9204.4	14472.6	28288.3	41783.2	40146.1	37440.9	31404.7	30184.0
62.5°	3540.5	3680.2	4753.6	6375.0	8679.4	22327.0	42719.4	50669.5	47537.6	36522.8	35172.8
65°	2819.0	2878.5	3403.5	5211.2	6222.5	13280.4	39696.1	58692.1	57647.3	42719.4	39639.2
67°	2736.2	2759.5	3007.8	4474.2	5865.6	8141.5	33256.4	59998.1	61058.5	46469.5	39778.9
67.5°	2754.3	2780.2	3015.6	4269.9	5855.3	7482.0	31037.5	59483.5	60823.1	46767.0	39160.8
70°	2656.1	2736.2	3452.7	4267.3	5568.1	6217.3	18587.3	51538.5	52932.5	43453.9	33228.0
72.5°	941.4	946.5	1492.3	3452.7	6054.3	6284.6	9333.7	37782.4	38814.2	33240.9	23956.3
75°	558.6	475.9	496.5	982.7	5785.4	6103.5	5384.5	24142.6	24527.9	19047.7	12132.0
77.5°	385.3	336.2	346.6	434.4	2203.4	6018.2	4277.7	12589.8	12178.6	6680.3	2583.7
80°	219.8	194.0	206.9	380.1	801.7	5614.8	4034.5	5105.2	4352.7	1132.8	713.8
82.5°	116.4	98.3	119.0	312.9	558.6	3499.2	4042.3	2467.3	1955.2	382.8	486.2
85°	41.4	33.7	56.9	214.6	372.5	1073.3	3747.5	2074.1	1629.4	186.2	369.8
87.5°	7.8	7.8	23.3	88.0	150.0	328.5	2216.4	1231.0	825.0	111.2	253.5
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°	9778.6	9778.6	9778.6	9778.6	9778.6	9778.6	9778.6	9778.6	9778.6	9778.6	9778.6
2.5°	9747.5	9636.3	9486.3	9302.7	9085.4	8894.0	8751.9	8604.4	8573.4	8521.7	8513.9
5°	9682.8	9491.4	9119.1	8692.3	8237.2	7826.0	7492.3	7194.9	7063.0	6949.2	6936.3
7.5°	9587.2	9300.2	8666.4	7978.5	7267.3	6620.7	6072.4	5684.5	5327.6	5157.0	5131.1
10°	9476.0	9064.8	8157.0	7202.7	6220.0	5307.0	4492.3	3809.6	3395.7	3150.1	3119.0
12.5°	9372.5	8834.6	7637.1	6398.4	5092.4	3871.6	2824.2	2172.4	1738.0	1562.0	1541.4
15°	9323.4	8648.3	7150.9	5575.9	3913.0	2464.7	1543.9	1194.8	1052.6	1011.2	1008.6
17.5°	9318.3	8490.6	6675.1	4725.0	2741.4	1432.7	1006.1	918.1	889.7	879.3	879.3
20°	9315.6	8340.6	6199.2	3843.1	1740.6	954.3	837.9	817.2	796.6	783.6	783.6
22.5°	9344.0	8206.1	5702.6	2943.1	1096.6	773.2	737.0	716.4	690.5	672.4	669.8
25°	9372.5	8102.7	5195.8	2094.9	794.0	672.4	636.2	607.7	571.5	548.3	545.7
27.5°	9377.7	7973.4	4652.7	1401.7	664.7	587.1	540.5	496.5	455.2	431.9	429.3
30°	9300.2	7756.1	4050.1	946.5	587.1	509.5	447.4	400.9	362.0	344.0	344.0
32.5°	9147.5	7487.2	3388.0	713.8	522.4	437.1	369.8	325.9	300.0	292.3	289.7
35°	9010.5	7197.5	2707.8	605.2	468.1	369.8	302.6	274.2	258.6	256.0	253.5
37.5°	8930.3	6964.8	2069.0	548.3	416.3	310.4	256.0	235.4	227.6	222.4	225.0
40°	8992.4	6770.8	1528.5	501.8	364.7	258.6	217.3	206.9	199.2	196.5	196.5
42.5°	9263.9	6737.2	1135.4	460.3	315.5	214.6	188.8	181.1	175.8	173.3	175.8
45°	9977.7	6944.1	881.9	421.6	266.4	181.1	160.3	157.7	155.2	155.2	155.2
47.5°	11051.0	7370.8	734.5	377.6	222.4	155.2	139.6	137.1	134.5	137.1	137.1
50°	12869.1	8151.8	656.9	333.6	183.6	131.9	119.0	119.0	119.0	119.0	121.5
52.5°	15633.8	9688.1	605.2	289.7	150.0	111.2	100.9	100.9	103.4	103.4	106.1
55°	18714.0	11726.0	558.6	245.7	126.7	93.1	82.8	85.3	88.0	90.5	90.5
57.5°	22055.4	13983.7	519.9	201.7	108.6	75.0	69.9	72.4	75.0	80.2	80.2
60°	26087.4	16427.8	463.0	157.7	90.5	59.4	54.3	59.4	67.2	72.4	75.0
62.5°	30515.0	18791.6	390.6	124.2	75.0	46.5	44.0	54.3	64.7	69.9	72.4
65°	33540.9	19533.9	300.0	100.9	56.9	33.7	36.2	49.1	62.1	69.9	69.9
67°	32315.0	17710.6	245.7	85.3	46.5	25.9	33.7	49.1	62.1	67.2	69.9
67.5°	31464.1	16996.7	235.4	82.8	44.0	25.9	33.7	49.1	62.1	69.9	69.9
70°	25601.2	12768.3	196.5	62.1	36.2	23.3	28.4	46.5	59.4	67.2	67.2
72.5°	17788.1	7872.5	175.8	44.0	31.0	20.7	25.9	44.0	56.9	64.7	67.2
75°	8457.0	2850.0	150.0	33.7	28.4	18.1	23.3	44.0	56.9	64.7	64.7
77.5°	1725.0	662.1	121.5	28.4	23.3	18.1	20.7	41.4	54.3	62.1	62.1
80°	566.4	256.0	90.5	25.9	23.3	18.1	20.7	38.8	54.3	59.4	62.1
82.5°	408.7	129.3	59.4	25.9	23.3	18.1	18.1	38.8	51.8	59.4	59.4
85°	312.9	90.5	38.8	25.9	23.3	18.1	18.1	36.2	49.1	56.9	56.9
87.5°	206.9	36.2	31.0	25.9	23.3	18.1	18.1	36.2	46.5	54.3	56.9
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)