

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: P269480

Luminaire Tested: **GLEON-AF-07-LED-E1-SL3-7027-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269480
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24289)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-07-LED-E1-SL3-7027-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31250.4 lumens
Efficiency: N/A
Efficacy: 79.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B2 - U0 - G5

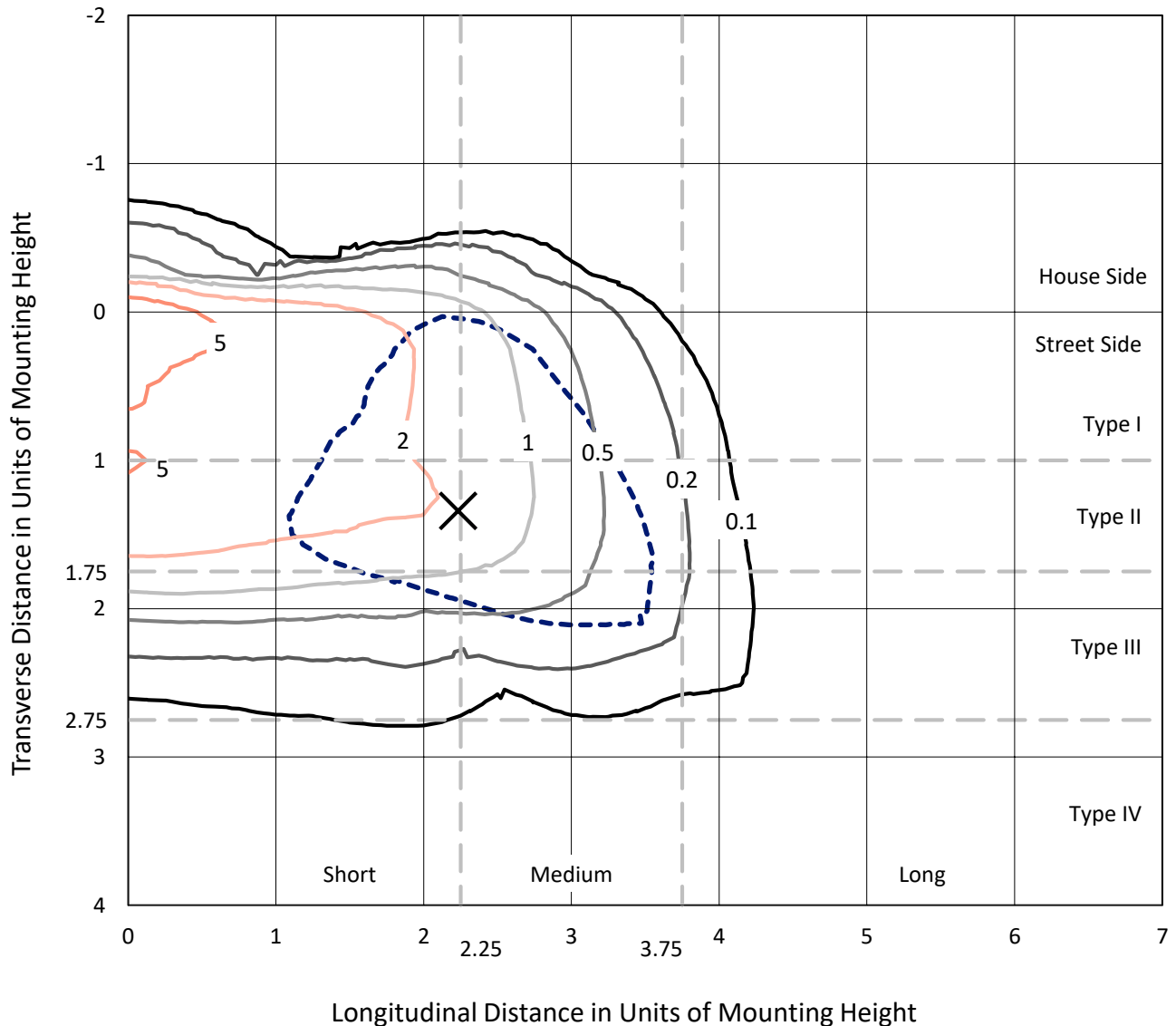
Input Watts (W): 391
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

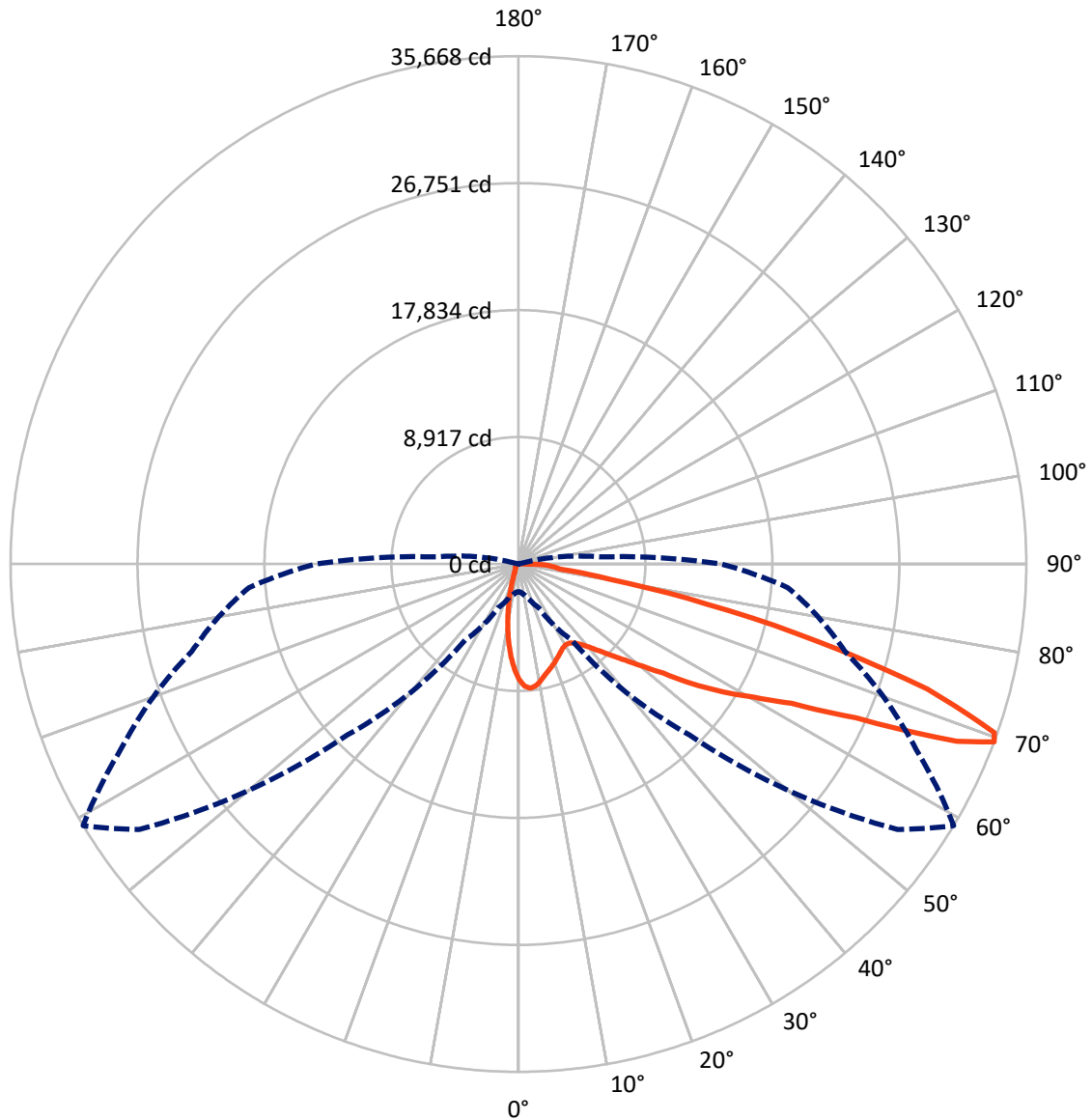
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.1 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2544.9	0.0	2544.9
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	28705.4	0.0	28705.4
	% Fixture	91.9	0.0	91.9
Total	Lumens	31250.4	0.0	31250.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	660.2	2.1
10°-20°	1364.2	4.4
20°-30°	1835.8	5.9
30°-40°	2665.4	8.5
40°-50°	4438.1	14.2
50°-60°	6923.4	22.2
60°-70°	8567.2	27.4
70°-80°	4341.7	13.9
80°-90°	454.3	1.5
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°	31250.4	100.0
0°-180°	31250.4	100.0



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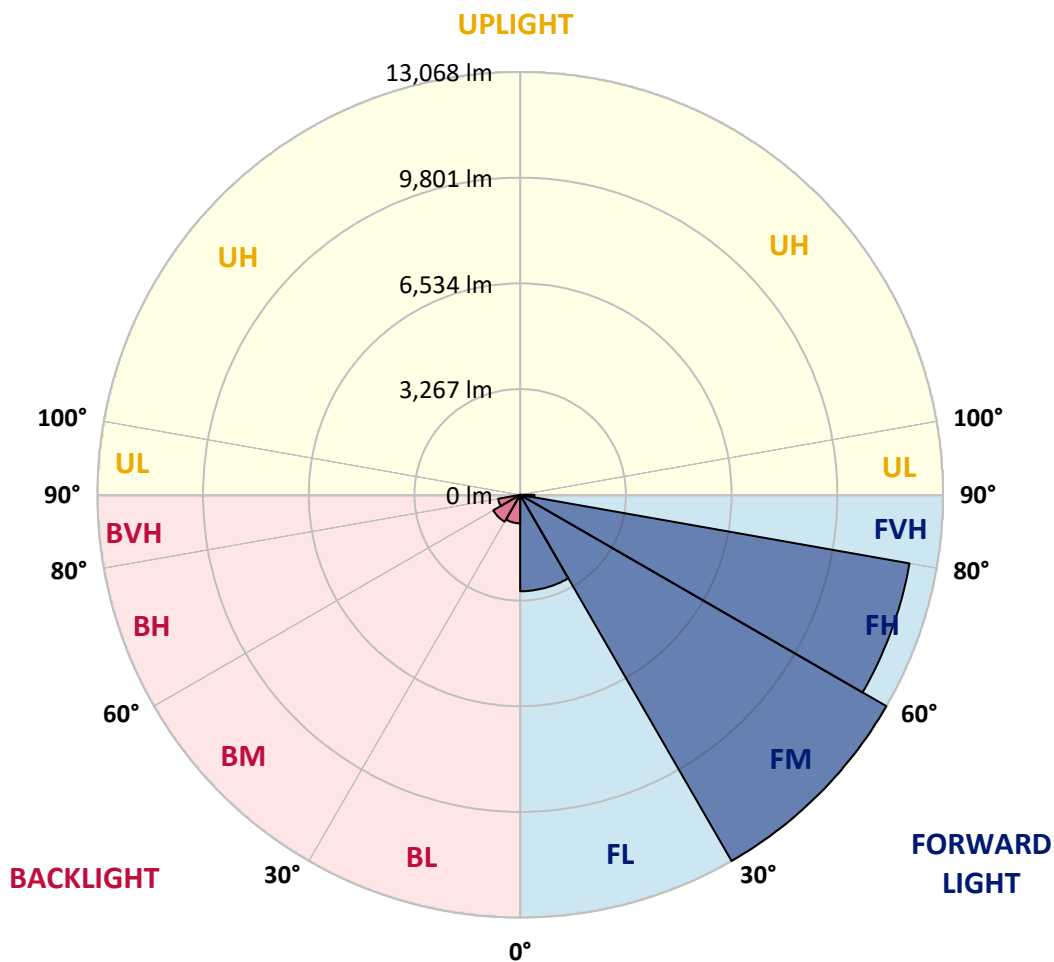
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2979.4	9.5			
FM	(30°-60°)	13068.0	41.8			
FH	(60°-80°)	12217.8	39.1			G5
FVH	(80°-90°)	440.3	1.4			G3/500
BL	(0°-30°)	880.9	2.8	B2/1000		
BM	(30°-60°)	958.9	3.1	B1/1000		
BH	(60°-80°)	691.1	2.2	B2/1000		G2/1000
BVH	(80°-90°)	14.0	0.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	8134.1	8134.1	8134.1	8134.1	8134.1	8134.1	8134.1	8134.1	8134.1	8134.1	8134.1
2.5°	8915.0	8911.5	8872.6	8855.0	8823.2	8756.0	8651.8	8597.0	8508.7	8355.0	8148.2
5°	8833.8	8876.2	8899.1	8900.9	8923.9	8899.1	8805.5	8759.6	8637.7	8390.3	8019.2
7.5°	8282.6	8298.5	8363.8	8420.4	8529.9	8634.1	8667.7	8648.3	8575.8	8310.8	7817.7
10°	7692.2	7708.1	7785.9	7860.1	8008.6	8169.4	8339.1	8374.4	8404.5	8197.7	7623.3
12.5°	7183.3	7199.2	7278.7	7376.0	7549.1	7747.1	8010.4	8068.7	8201.2	8089.9	7467.8
15°	6745.2	6752.2	6830.0	6950.0	7156.8	7411.2	7710.0	7803.5	8006.9	8013.9	7331.7
17.5°	6372.2	6390.0	6437.7	6552.4	6778.7	7093.1	7441.3	7575.6	7814.1	7950.3	7199.2
20°	6144.2	6162.0	6160.1	6223.7	6427.1	6762.8	7172.7	7333.6	7623.3	7884.9	7080.8
22.5°	6100.1	6100.1	6054.1	6045.4	6165.4	6446.4	6893.6	7089.7	7451.9	7856.5	6997.7
25°	6257.4	6250.2	6135.5	6041.8	6047.1	6215.0	6623.2	6856.5	7307.1	7876.0	6953.6
27.5°	6589.5	6580.8	6435.8	6257.4	6114.3	6112.4	6418.2	6669.0	7192.2	7968.0	6971.2
30°	7049.0	7045.4	6888.3	6663.7	6404.0	6165.4	6347.5	6575.5	7117.9	8134.1	7011.9
32.5°	7551.0	7545.7	7427.1	7190.5	6861.8	6404.0	6421.8	6612.6	7139.2	8355.0	7110.9
35°	8082.8	8074.0	8022.8	7816.0	7453.6	6844.0	6665.6	6814.1	7273.4	8685.4	7305.2
37.5°	8658.9	8667.7	8704.8	8506.9	8127.0	7460.8	7073.8	7174.6	7543.8	9134.2	7621.6
40°	9508.9	9507.1	9519.5	9259.6	8893.8	8215.3	7644.5	7676.3	7996.3	9729.7	8102.3
42.5°	11051.6	10943.7	10616.9	10086.7	9719.1	9077.7	8363.8	8330.3	8549.3	10466.6	8775.5
45°	13124.3	12894.6	12046.5	11030.4	10560.3	10049.6	9249.0	9141.3	9280.8	11351.9	9606.0
47.5°	14907.5	14668.9	13468.9	12012.9	11452.8	10972.0	10286.4	10092.0	10137.9	12343.3	10659.3
50°	15513.5	15396.9	14348.9	12868.1	12316.8	12133.0	11489.9	11253.0	11187.6	13490.1	11880.4
52.5°	15303.3	15294.5	14596.4	13423.1	13108.4	13334.7	13004.3	12730.3	12489.9	14698.8	13122.6
55°	14965.8	15009.9	14697.1	13908.9	13898.3	14432.0	15075.3	14847.4	14151.1	16011.8	14193.5
57.5°	14034.4	14223.6	14640.5	14827.9	15262.7	15808.6	16800.0	16934.3	16110.8	17017.3	15082.4
60°	11387.4	11802.7	13166.7	14960.5	17020.8	18381.6	18881.7	18996.5	17718.9	17853.2	16282.1
62.5°	8082.8	8506.9	10236.9	13271.0	17047.3	21762.0	21983.0	21532.4	19489.5	19091.9	18351.6
65°	4290.6	4617.5	6031.2	9579.5	14780.2	22546.6	27406.2	26063.2	22613.8	21528.8	21025.2
67.5°	2194.7	2293.7	2855.6	4688.2	10160.9	20026.8	32267.6	33212.9	27998.3	23946.2	20896.2
69°	1942.0	2000.3	2373.2	3389.3	6506.6	16962.5	32504.4	35667.6	30816.7	23744.8	18989.5
70°	1880.2	1931.4	2270.7	3067.7	5085.8	14225.3	31597.8	35451.9	31537.8	22977.8	17565.2
72.5°	1595.7	1639.9	2021.5	2710.7	4133.3	7061.3	25667.5	30040.9	28300.4	19141.4	12714.4
75°	1067.4	1212.3	1940.2	2541.1	3845.3	4011.3	16921.9	21709.0	20166.3	12910.6	6623.2
77.5°	256.2	275.7	547.7	2021.5	3516.5	3530.7	8703.0	13495.4	11007.4	4601.6	1565.7
80°	137.8	132.5	153.7	401.2	3274.5	3313.4	3917.7	6550.7	3930.1	763.4	515.9
82.5°	97.1	91.8	99.0	167.9	1030.3	3018.2	2834.4	2965.2	1629.3	293.3	231.6
85°	35.4	33.5	54.7	152.0	323.4	1735.3	2912.2	2445.6	1320.0	134.2	169.6
87.5°	12.3	10.6	21.2	83.1	99.0	738.6	1797.1	1848.4	519.5	81.2	79.5
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°	8134.1	8134.1	8134.1	8134.1	8134.1	8134.1	8134.1	8134.1	8134.1	8134.1	8134.1
2.5°	8061.6	7952.1	7750.5	7543.8	7352.9	7123.2	7008.3	6895.3	6847.6	6830.0	6746.9
5°	7828.3	7642.8	7215.1	6785.7	6390.0	5969.2	5691.9	5469.2	5338.4	5274.8	5174.1
7.5°	7529.8	7225.7	6577.2	5914.5	5297.8	4690.0	4239.3	3893.0	3654.3	3539.5	3435.3
10°	7239.9	6835.3	5912.7	5009.8	4172.2	3366.4	2744.3	2293.7	2005.6	1873.1	1788.3
12.5°	6980.1	6455.3	5271.3	4128.0	3076.5	2132.9	1500.3	1141.6	963.2	901.2	871.1
15°	6748.6	6105.4	4665.2	3290.4	2083.3	1219.3	820.0	698.1	669.7	669.7	666.3
17.5°	6529.5	5762.5	4080.3	2504.0	1307.7	745.8	623.9	608.0	608.0	615.0	615.0
20°	6319.1	5435.6	3514.8	1797.1	823.4	592.1	563.6	560.2	563.6	572.5	572.5
22.5°	6138.9	5138.8	2986.4	1233.5	611.4	533.7	519.5	514.2	515.9	521.2	524.8
25°	6004.7	4887.9	2488.0	835.9	526.5	486.0	470.1	461.2	454.2	454.2	457.6
27.5°	5919.8	4675.8	2005.6	608.0	473.5	441.7	417.1	402.9	387.0	378.1	381.7
30°	5857.9	4474.4	1553.3	496.6	424.1	392.3	360.5	337.6	314.5	303.9	307.5
32.5°	5835.0	4311.8	1161.0	438.3	380.0	344.6	305.8	275.7	250.9	242.2	243.9
35°	5896.8	4182.8	849.9	395.9	344.6	300.5	256.2	222.7	203.2	197.9	199.8
37.5°	6059.4	4113.9	636.2	360.5	312.8	263.4	213.8	181.9	169.6	169.6	171.3
40°	6366.9	4112.1	510.6	335.7	284.6	228.0	176.6	153.7	146.7	150.1	152.0
42.5°	6815.8	4205.8	445.3	312.8	259.8	194.5	146.7	130.8	128.9	132.5	134.2
45°	7429.0	4377.1	409.9	293.3	233.3	162.6	123.6	113.0	113.0	118.3	120.2
47.5°	8180.0	4628.1	380.0	274.0	206.8	136.1	106.0	99.0	100.7	106.0	107.7
50°	9084.7	4944.5	349.9	252.8	187.2	113.0	91.8	86.5	88.4	95.4	97.1
52.5°	10114.9	5370.2	325.1	233.3	162.6	93.7	77.8	74.2	77.8	84.8	86.5
55°	10998.6	5751.9	295.2	217.4	130.8	77.8	63.6	63.6	67.2	75.9	77.8
57.5°	11848.6	6151.4	268.7	187.2	102.4	61.9	53.0	54.7	60.0	68.9	70.6
60°	13096.1	6828.1	236.9	157.3	77.8	49.4	44.1	46.0	53.0	61.9	63.6
62.5°	15215.0	7858.4	205.1	130.8	60.0	38.8	35.4	38.8	47.7	58.3	60.0
65°	17126.8	8277.2	167.9	109.6	46.0	30.1	30.1	35.4	46.0	56.6	58.3
67.5°	16061.3	6967.8	130.8	86.5	35.4	22.9	24.8	33.5	44.1	56.6	58.3
69°	14204.1	5697.2	111.3	68.9	30.1	21.2	22.9	33.5	44.1	54.7	56.6
70°	12756.8	4810.1	99.0	58.3	26.5	21.2	22.9	31.8	44.1	54.7	56.6
72.5°	8544.0	2597.7	79.5	42.4	24.8	19.5	19.5	31.8	42.4	53.0	54.7
75°	3672.1	717.4	63.6	30.1	21.2	17.6	17.6	30.1	40.7	51.3	54.7
77.5°	671.6	181.9	51.3	26.5	21.2	17.6	15.9	28.2	38.8	49.4	51.3
80°	266.8	90.1	40.7	22.9	19.5	15.9	14.2	26.5	37.1	47.7	49.4
82.5°	160.7	51.3	33.5	21.2	19.5	14.2	12.3	22.9	35.4	46.0	47.7
85°	130.8	35.4	26.5	21.2	17.6	14.2	10.6	21.2	31.8	44.1	46.0
87.5°	63.6	24.8	24.8	19.5	17.6	14.2	10.6	19.5	30.1	42.4	44.1
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)