

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: P193685

Luminaire Tested: **GLEON-AF-07-LED-E1-SL3-8030-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193685
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-SL3-8030-1200-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 1200mA 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: 32198 lumens
Efficiency: N/A
Efficacy: 71.9 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): 448
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

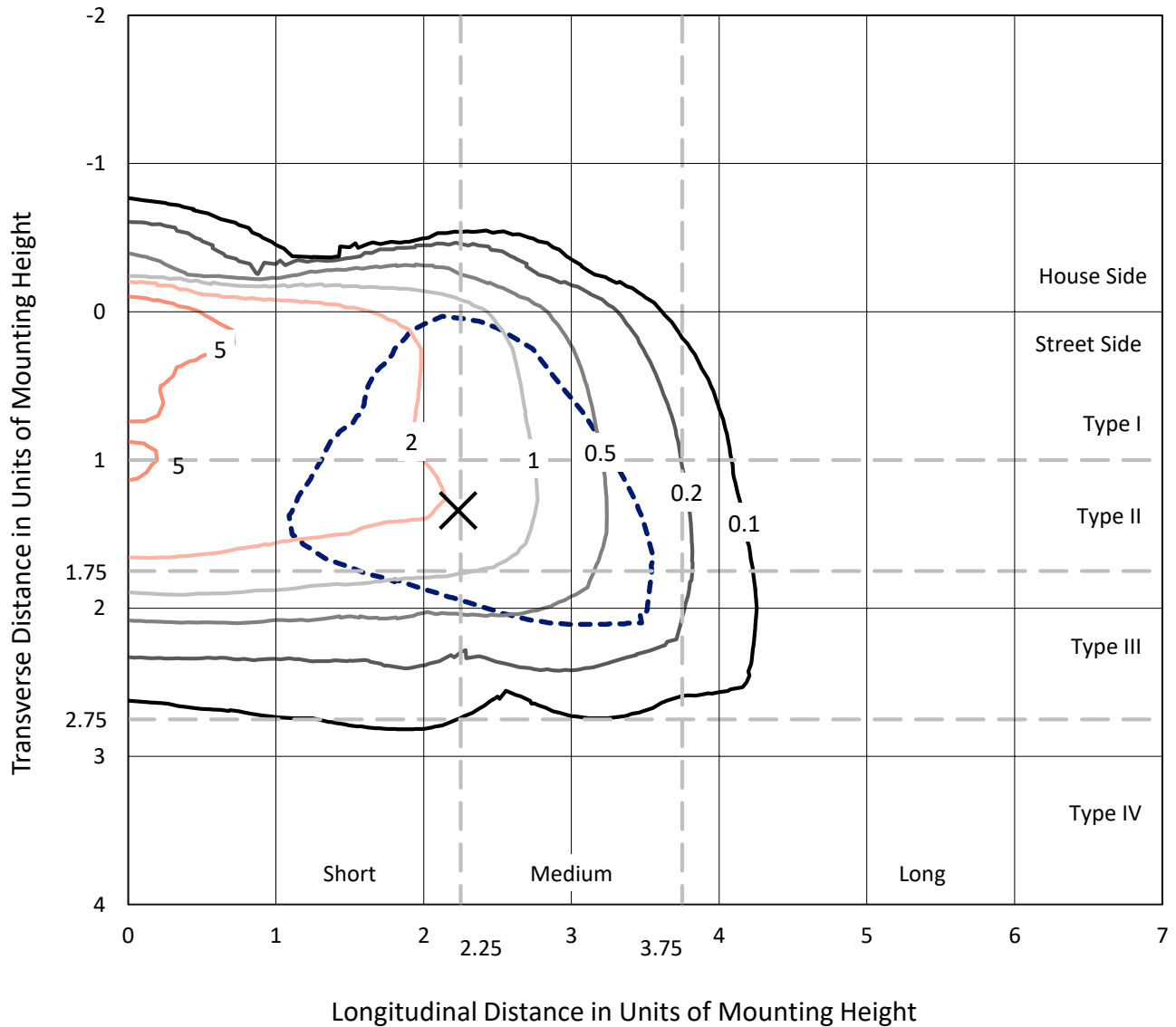


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

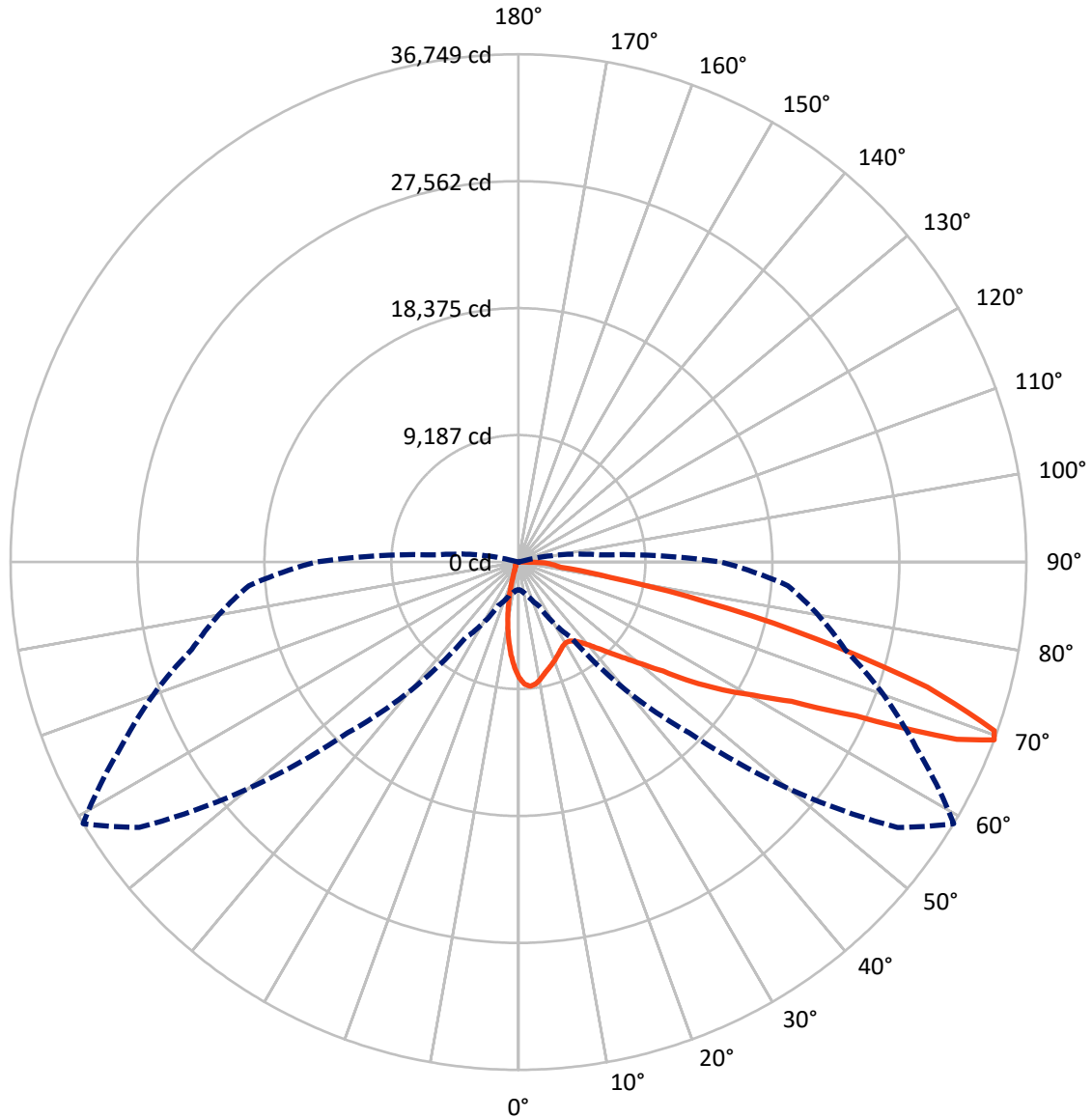


Based on 30 foot mounting height. Maximum calculated value = 9.4 fc
 Type III - Short - Non-Cutoff

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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	2622.1	0.0	2622.1
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	29575.9	0.0	29575.9
	% Fixture	91.9	0.0	91.9
Total	Lumens	32198.0	0.0	32198.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	680.3	2.1
10°-20°	1405.6	4.4
20°-30°	1891.4	5.9
30°-40°	2746.2	8.5
40°-50°	4572.7	14.2
50°-60°	7133.3	22.2
60°-70°	8826.9	27.4
70°-80°	4473.4	13.9
80°-90°	468.1	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°	32198.0	100.0
0°-180°	32198.0	100.0



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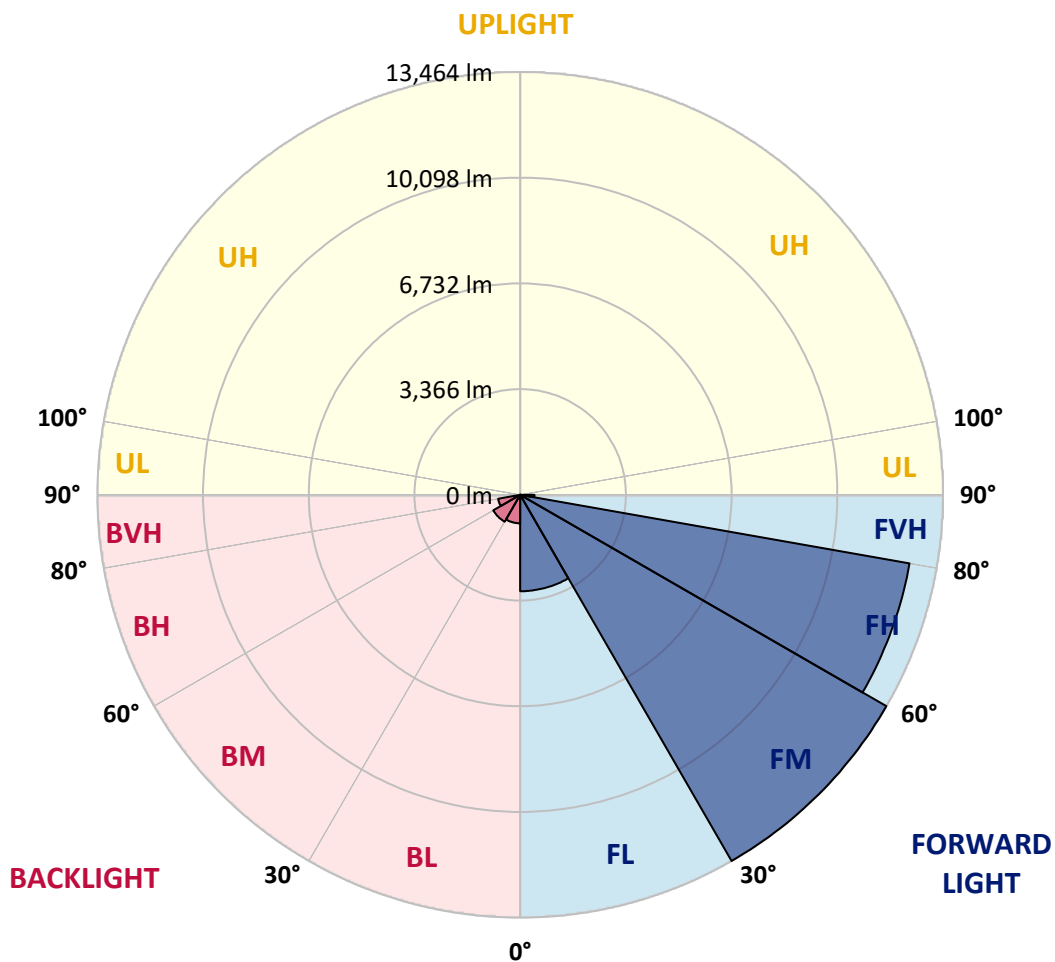
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3069.7	9.5			
FM (30°-60°)	13464.3	41.8			
FH (60°-80°)	12588.2	39.1			G5
FVH (80°-90°)	453.7	1.4			G3/500
BL (0°-30°)	907.6	2.8	B2/1000		
BM (30°-60°)	988.0	3.1	B1/1000		
BH (60°-80°)	712.1	2.2	B2/1000		G2/1000
BVH (80°-90°)	14.4	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°	8380.7	8380.7	8380.7	8380.7	8380.7	8380.7	8380.7	8380.7	8380.7	8380.7	8380.7
2.5°	9185.4	9181.8	9141.7	9123.5	9090.8	9021.6	8914.2	8857.7	8766.7	8608.3	8395.3
5°	9101.7	9145.4	9169.1	9170.9	9194.5	9169.1	9072.6	9025.2	8899.6	8644.7	8262.3
7.5°	8533.6	8550.0	8617.4	8675.6	8788.5	8896.0	8930.5	8910.5	8835.9	8562.8	8054.8
10°	7925.5	7941.9	8022.0	8098.5	8251.4	8417.1	8591.9	8628.3	8659.3	8446.2	7854.5
12.5°	7401.2	7417.5	7499.5	7599.6	7778.0	7982.0	8253.2	8313.3	8449.9	8335.2	7694.3
15°	6949.6	6956.9	7037.0	7160.8	7373.8	7636.0	7943.7	8040.2	8249.6	8256.9	7554.1
17.5°	6565.5	6583.7	6632.8	6751.2	6984.2	7308.3	7667.0	7805.4	8051.1	8191.3	7417.5
20°	6330.6	6348.8	6347.0	6412.5	6621.9	6967.8	7390.2	7555.9	7854.5	8124.0	7295.6
22.5°	6285.1	6285.1	6237.7	6228.6	6352.4	6641.9	7102.6	7304.7	7677.9	8094.8	7210.0
25°	6447.1	6439.8	6321.5	6225.0	6230.4	6403.4	6824.0	7064.3	7528.6	8114.9	7164.5
27.5°	6789.4	6780.3	6631.0	6447.1	6299.6	6297.8	6612.8	6871.3	7410.3	8209.5	7182.7
30°	7262.8	7259.1	7097.1	6865.9	6598.2	6352.4	6540.0	6774.8	7333.8	8380.7	7224.5
32.5°	7779.9	7774.4	7652.4	7408.4	7069.8	6598.2	6616.4	6813.1	7355.6	8608.3	7326.5
35°	8327.9	8318.8	8266.0	8053.0	7679.7	7051.6	6867.7	7020.6	7494.0	8948.8	7526.8
37.5°	8921.4	8930.5	8968.8	8764.9	8373.4	7687.0	7288.3	7392.1	7772.6	9411.2	7852.7
40°	9797.2	9795.4	9808.1	9540.5	9163.6	8464.4	7876.4	7909.1	8238.7	10024.8	8347.9
42.5°	11386.7	11275.6	10938.8	10392.6	10013.9	9352.9	8617.4	8582.8	8808.6	10784.0	9041.6
45°	13522.4	13285.7	12411.7	11364.8	10880.5	10354.3	9529.6	9418.5	9562.3	11696.2	9897.3
47.5°	15359.4	15113.7	13877.4	12377.1	11800.0	11304.7	10598.3	10398.0	10445.4	12717.6	10982.5
50°	15983.9	15863.8	14784.1	13258.4	12690.3	12500.9	11838.2	11594.2	11526.9	13899.2	12240.6
52.5°	15767.3	15758.2	15039.0	13830.1	13506.0	13739.0	13398.6	13116.3	12868.7	15144.6	13520.5
55°	15419.5	15465.0	15142.8	14330.8	14319.8	14869.7	15532.4	15297.5	14580.2	16497.4	14623.9
57.5°	14460.0	14654.8	15084.5	15277.5	15725.4	16288.0	17309.4	17447.8	16599.3	17533.4	15539.7
60°	11732.6	12160.5	13566.1	15414.1	17537.0	18938.9	19454.2	19572.6	18256.2	18394.6	16776.0
62.5°	8327.9	8764.9	10547.3	13673.5	17564.3	22422.0	22649.5	22185.3	20080.5	19670.9	18908.0
65°	4420.7	4757.5	6214.1	9870.0	15228.4	23230.3	28237.3	26853.5	23299.5	22181.6	21662.7
67.5°	2261.3	2363.3	2942.3	4830.3	10469.0	20634.0	33246.0	34220.1	28847.2	24672.3	21529.8
69°	2001.0	2061.0	2445.2	3492.1	6703.8	17476.9	33490.0	36749.1	31751.2	24464.8	19565.3
70°	1937.2	1990.0	2339.6	3160.7	5240.0	14656.7	32556.0	36526.9	32494.1	23674.6	18097.8
72.5°	1644.1	1689.6	2082.9	2793.0	4258.6	7275.5	26445.7	30951.9	29158.6	19721.9	13100.0
75°	1099.7	1249.0	1999.1	2618.2	3961.8	4133.0	17435.0	22367.3	20777.9	13302.1	6824.0
77.5°	264.0	284.0	564.4	2082.9	3623.2	3637.8	8967.0	13904.7	11341.2	4741.1	1613.1
80°	142.0	136.6	158.4	413.3	3373.8	3413.8	4036.5	6749.3	4049.2	786.5	531.6
82.5°	100.1	94.7	102.0	173.0	1061.5	3109.8	2920.4	3055.1	1678.7	302.2	238.5
85°	36.4	34.6	56.4	156.6	333.2	1787.9	3000.5	2519.9	1360.1	138.4	174.8
87.5°	12.7	10.9	21.8	85.6	102.0	761.1	1851.7	1904.5	535.3	83.8	81.9
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°	8380.7	8380.7	8380.7	8380.7	8380.7	8380.7	8380.7	8380.7	8380.7	8380.7	8380.7
2.5°	8306.0	8193.2	7985.6	7772.6	7575.9	7339.3	7220.9	7104.4	7055.2	7037.0	6951.4
5°	8065.7	7874.5	7433.9	6991.5	6583.7	6150.3	5864.5	5635.1	5500.3	5434.8	5331.0
7.5°	7758.0	7444.9	6776.7	6093.9	5458.5	4832.1	4367.9	4011.0	3765.2	3646.9	3539.4
10°	7459.4	7042.5	6092.1	5161.7	4298.7	3468.4	2827.6	2363.3	2066.5	1929.9	1842.6
12.5°	7191.8	6651.0	5431.2	4253.2	3169.8	2197.6	1545.8	1176.2	992.3	928.6	897.6
15°	6953.3	6290.5	4806.7	3390.1	2146.6	1256.3	844.8	719.2	690.0	690.0	686.4
17.5°	6727.5	5937.3	4204.0	2579.9	1347.3	768.3	642.7	626.3	626.3	633.6	633.6
20°	6510.8	5600.5	3621.4	1851.7	848.4	609.9	580.8	577.2	580.8	589.9	589.9
22.5°	6325.1	5294.6	3077.0	1270.9	630.0	549.9	535.3	529.8	531.6	537.1	540.7
25°	6186.7	5036.1	2563.5	861.2	542.6	500.7	484.3	475.2	467.9	467.9	471.6
27.5°	6099.4	4817.6	2066.5	626.3	487.9	455.2	429.7	415.1	398.7	389.6	393.3
30°	6035.6	4610.0	1600.4	511.6	437.0	404.2	371.4	347.8	324.1	313.2	316.8
32.5°	6012.0	4442.5	1196.2	451.5	391.5	355.0	315.0	284.0	258.5	249.4	251.3
35°	6075.7	4309.6	875.8	407.8	355.0	309.5	264.0	229.4	209.4	203.9	205.7
37.5°	6243.2	4238.6	655.5	371.4	322.3	271.3	220.3	187.5	174.8	174.8	176.6
40°	6560.0	4236.8	526.2	345.9	293.1	234.9	182.1	158.4	151.1	154.8	156.6
42.5°	7022.5	4333.3	458.8	322.3	267.6	200.3	151.1	134.7	132.9	136.6	138.4
45°	7654.2	4509.9	422.4	302.2	240.3	167.5	127.4	116.5	116.5	122.0	123.8
47.5°	8428.0	4768.4	391.5	282.2	213.0	140.2	109.2	102.0	103.8	109.2	111.1
50°	9360.2	5094.3	360.5	260.4	193.0	116.5	94.7	89.2	91.0	98.3	100.1
52.5°	10421.7	5533.1	335.0	240.3	167.5	96.5	80.1	76.5	80.1	87.4	89.2
55°	11332.1	5926.4	304.1	223.9	134.7	80.1	65.5	65.5	69.2	78.3	80.1
57.5°	12207.8	6337.9	276.7	193.0	105.6	63.7	54.6	56.4	61.9	71.0	72.8
60°	13493.2	7035.2	244.0	162.0	80.1	51.0	45.5	47.3	54.6	63.7	65.5
62.5°	15676.2	8096.7	211.2	134.7	61.9	40.1	36.4	40.1	49.2	60.1	61.9
65°	17646.2	8528.2	173.0	112.9	47.3	31.0	31.0	36.4	47.3	58.3	60.1
67.5°	16548.4	7179.0	134.7	89.2	36.4	23.7	25.5	34.6	45.5	58.3	60.1
69°	14634.8	5869.9	114.7	71.0	31.0	21.8	23.7	34.6	45.5	56.4	58.3
70°	13143.7	4956.0	102.0	60.1	27.3	21.8	23.7	32.8	45.5	56.4	58.3
72.5°	8803.1	2676.4	81.9	43.7	25.5	20.0	20.0	32.8	43.7	54.6	56.4
75°	3783.4	739.2	65.5	31.0	21.8	18.2	18.2	31.0	41.9	52.8	56.4
77.5°	691.9	187.5	52.8	27.3	21.8	18.2	16.4	29.1	40.1	51.0	52.8
80°	274.9	92.9	41.9	23.7	20.0	16.4	14.6	27.3	38.2	49.2	51.0
82.5°	165.7	52.8	34.6	21.8	20.0	14.6	12.7	23.7	36.4	47.3	49.2
85°	134.7	36.4	27.3	21.8	18.2	14.6	10.9	21.8	32.8	45.5	47.3
87.5°	65.5	25.5	25.5	20.0	18.2	14.6	10.9	20.0	31.0	43.7	45.5
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)