

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: P269712

Luminaire Tested: **GLEON-AF-10-LED-E1-SL2-7027-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269712
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-10-LED-E1-SL2-7027-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 2700K, 1050mA 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: 42398.1 lumens
Efficiency: N/A
Efficacy: 76.0 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): 558
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

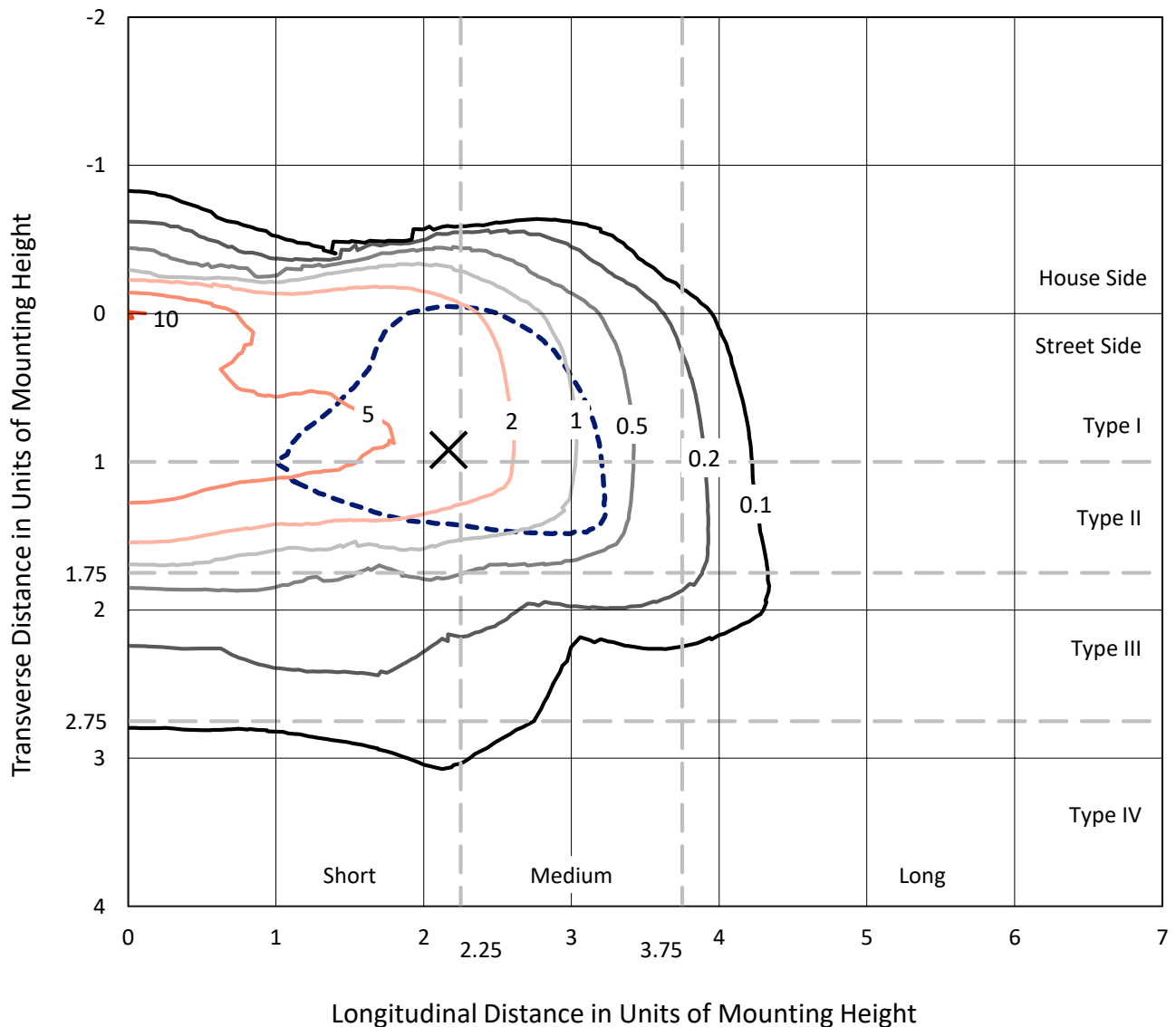


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

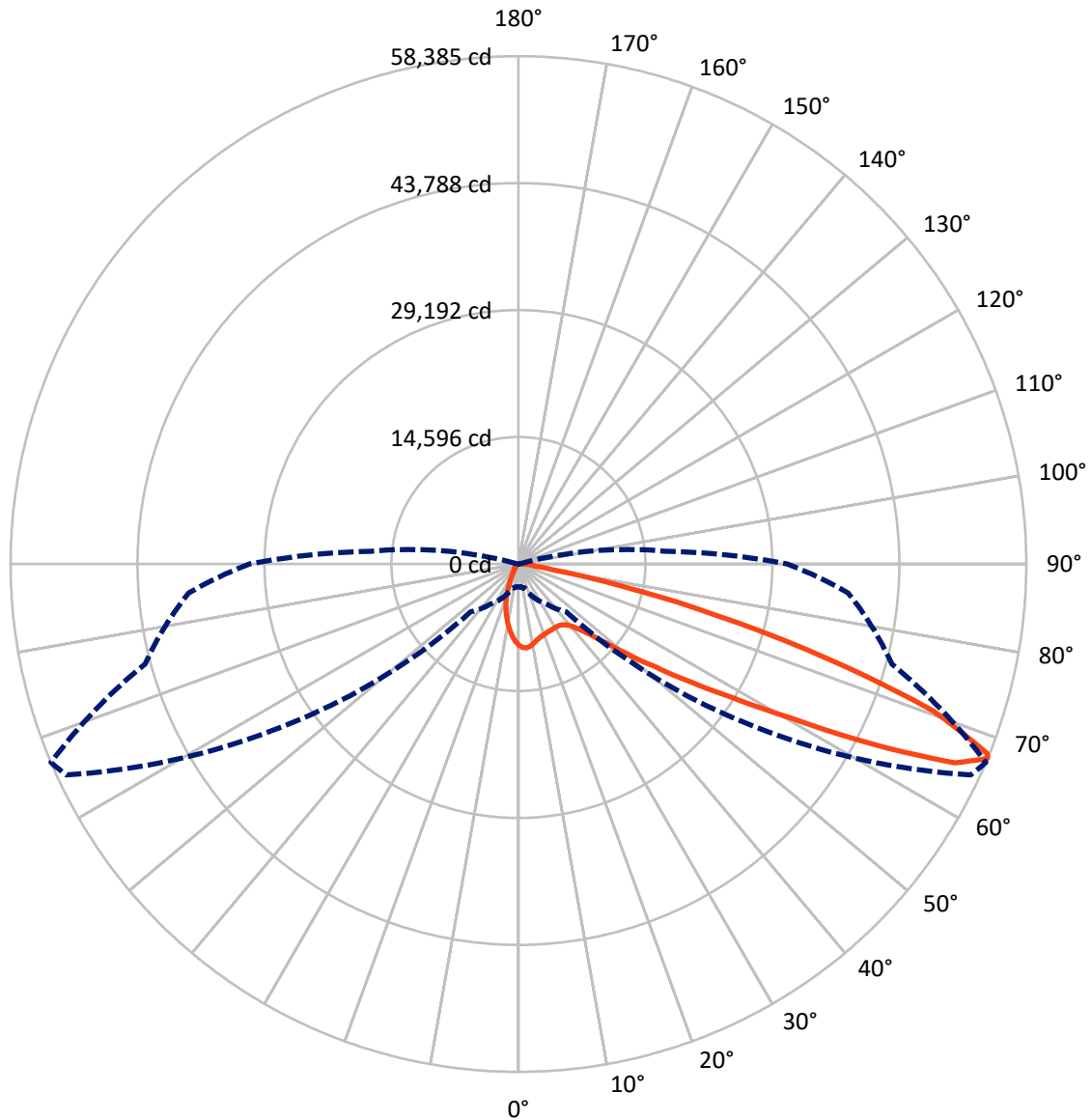


Based on 30 foot mounting height. Maximum calculated value = 10.4 fc
 Type II - Short - Semi-Cutoff

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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	4402.2	0.0	4402.2
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	37995.9	0.0	37995.9
	% Fixture	89.6	0.0	89.6
Total	Lumens	42398.1	0.0	42398.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	760.8	1.8
10°-20°	1619.3	3.8
20°-30°	2354.4	5.6
30°-40°	3672.9	8.7
40°-50°	6506.3	15.3
50°-60°	10295.6	24.3
60°-70°	11792.2	27.8
70°-80°	4891.3	11.5
80°-90°	505.2	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°	42398.1	100.0
0°-180°	42398.1	100.0



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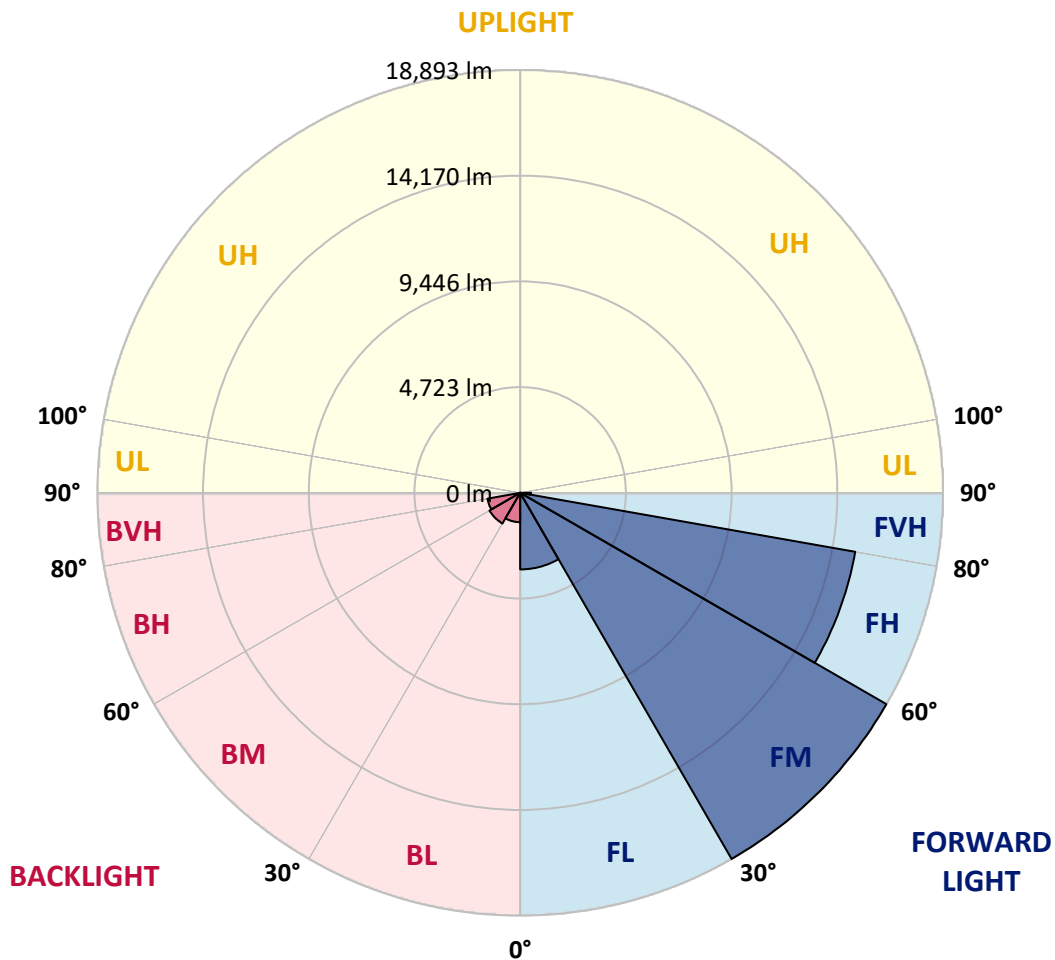
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3420.9	8.1			
FM	(30°-60°)	18892.7	44.6			
FH	(60°-80°)	15199.8	35.9			G5
FVH	(80°-90°)	482.5	1.1			G3/500
BL	(0°-30°)	1313.6	3.1	B3/2500		
BM	(30°-60°)	1582.1	3.7	B2/2500		
BH	(60°-80°)	1483.7	3.5	B3/2500		G3/2500
BVH	(80°-90°)	22.7	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°	9350.4	9350.4	9350.4	9350.4	9350.4	9350.4	9350.4	9350.4	9350.4	9350.4	9350.4
2.5°	9666.9	9686.7	9684.2	9699.0	9733.7	9736.1	9701.4	9634.7	9619.9	9533.4	9382.4
5°	8915.0	8971.9	9006.5	9147.5	9305.8	9496.3	9639.7	9691.6	9684.2	9622.4	9394.8
7.5°	8057.0	8113.9	8153.3	8319.2	8529.2	8855.8	9229.1	9535.8	9562.9	9629.8	9385.0
10°	7485.7	7495.5	7550.1	7708.3	7928.4	8262.3	8707.4	9244.0	9325.7	9570.5	9360.2
12.5°	7015.9	7023.3	7095.0	7265.6	7500.6	7836.9	8304.2	8925.0	9051.1	9496.3	9355.3
15°	6682.0	6709.3	6773.5	6951.5	7201.4	7535.2	8014.9	8690.1	8840.8	9469.0	9399.8
17.5°	6570.7	6600.3	6620.1	6748.7	6976.2	7302.7	7794.9	8536.8	8707.4	9483.9	9486.3
20°	6687.0	6709.3	6664.6	6696.9	6837.8	7129.6	7609.4	8405.7	8608.5	9501.3	9597.6
22.5°	7119.6	7129.6	7008.4	6867.5	6842.7	7003.5	7463.5	8301.7	8519.4	9548.2	9728.7
25°	7861.5	7844.3	7646.5	7342.2	7055.4	6981.2	7376.9	8237.5	8474.9	9597.6	9864.6
27.5°	8756.8	8781.6	8509.6	8066.9	7520.3	7129.6	7364.6	8210.2	8455.0	9632.3	9983.5
30°	9845.0	9879.6	9567.9	9011.5	8227.5	7495.5	7478.3	8205.4	8442.7	9610.0	9993.4
32.5°	10955.3	10997.3	10752.5	10178.8	9172.2	8108.9	7735.5	8259.7	8467.5	9533.4	9936.4
35°	12117.5	12177.0	12013.8	11521.7	10453.2	8994.2	8188.1	8425.5	8583.8	9525.8	9879.6
37.5°	13722.6	13776.9	13470.4	12948.4	12003.8	10181.3	8915.0	8737.0	8858.1	9644.7	9894.4
40°	16118.8	16111.5	15320.1	14521.3	13707.7	11689.7	9936.4	9301.0	9362.8	10003.2	10077.4
42.5°	18730.3	18718.0	17548.3	16334.1	15599.5	13547.0	11279.3	10275.3	10233.2	10663.5	10552.2
45°	20743.3	20740.8	19786.2	18418.8	17877.2	15678.7	13015.4	11630.4	11566.1	11736.7	11427.7
47.5°	21601.5	21616.4	21136.6	20174.6	20402.0	18562.1	15203.9	13594.1	13497.6	13428.3	12958.4
50°	20933.7	20963.4	21003.0	20815.0	22254.3	22437.3	18139.4	16361.2	16314.3	16005.1	15270.6
52.5°	18752.6	18903.5	19368.4	19964.3	22897.3	26156.7	22741.5	19798.6	19546.4	19217.5	18408.8
55°	15077.7	15243.5	16126.4	17573.1	21940.3	28600.0	29191.1	24230.3	23809.8	22828.1	21660.8
57.5°	9978.5	10235.6	11516.7	13356.5	19160.7	28993.2	35625.7	30380.6	28916.5	26228.4	24912.8
60°	5497.4	5744.8	7134.6	8801.4	13838.7	27049.5	39953.5	38388.1	35801.3	30029.4	28862.2
62.5°	3385.5	3519.0	4545.3	6095.9	8299.4	21349.2	40848.6	48450.7	45455.9	34923.3	33632.5
65°	2695.5	2752.4	3254.4	4983.1	5950.1	12698.7	37957.7	56121.8	55122.7	40848.6	37903.4
67°	2616.5	2638.7	2876.1	4278.3	5608.7	7784.9	31800.0	57370.7	58384.6	44434.5	38036.9
67.5°	2633.7	2658.4	2883.5	4082.8	5598.9	7154.3	29678.3	56878.5	58159.5	44718.9	37445.8
70°	2539.8	2616.5	3301.5	4080.5	5324.3	5945.1	17773.2	49281.6	50614.5	41551.0	31772.8
72.5°	900.1	905.1	1426.9	3301.5	5789.2	6009.3	8925.0	36127.8	37114.5	31785.2	22907.1
75°	534.1	455.0	474.8	939.7	5532.0	5836.2	5148.7	23085.3	23453.8	18213.5	11600.7
77.5°	368.5	321.6	331.4	415.5	2107.0	5754.6	4090.3	12038.5	11645.3	6387.7	2470.5
80°	210.3	185.5	197.8	363.5	766.7	5368.8	3857.9	4881.7	4162.0	1083.1	682.5
82.5°	111.3	94.0	113.7	299.2	534.1	3345.9	3865.2	2359.2	1869.6	366.0	465.0
85°	39.5	32.2	54.3	205.3	356.1	1026.4	3583.3	1983.4	1558.0	178.0	353.7
87.5°	7.5	7.5	22.3	84.1	143.4	314.0	2119.3	1177.0	788.9	106.3	242.4
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°	9350.4	9350.4	9350.4	9350.4	9350.4	9350.4	9350.4	9350.4	9350.4	9350.4	9350.4
2.5°	9320.6	9214.4	9070.8	8895.2	8687.6	8504.6	8368.6	8227.5	8197.9	8148.4	8141.1
5°	9258.8	9075.8	8719.7	8311.7	7876.3	7483.2	7164.3	6879.8	6753.6	6644.9	6632.5
7.5°	9167.4	8892.9	8287.0	7629.1	6949.1	6330.9	5806.6	5435.6	5094.4	4931.2	4906.5
10°	9061.1	8667.7	7799.8	6887.2	5947.5	5074.5	4295.5	3642.6	3247.1	3012.0	2982.5
12.5°	8962.1	8447.8	7302.7	6118.1	4869.4	3702.1	2700.5	2077.3	1661.9	1493.7	1473.8
15°	8915.0	8269.6	6837.8	5331.7	3741.6	2356.8	1476.4	1142.6	1006.6	966.9	964.5
17.5°	8910.2	8118.8	6382.7	4518.1	2621.3	1370.0	961.9	878.0	850.8	840.9	840.9
20°	8907.7	7975.3	5927.7	3674.8	1664.3	912.5	801.3	781.4	761.7	749.4	749.4
22.5°	8934.9	7846.8	5452.9	2814.2	1048.5	739.5	704.8	685.0	660.3	642.9	640.5
25°	8962.1	7747.8	4968.3	2003.1	759.2	642.9	608.3	581.2	546.4	524.3	521.7
27.5°	8967.1	7624.2	4448.9	1340.4	635.6	561.4	516.9	474.8	435.3	413.0	410.5
30°	8892.9	7416.4	3872.8	905.1	561.4	487.2	427.9	383.2	346.1	328.9	328.9
32.5°	8746.9	7159.3	3239.6	682.5	499.5	417.9	353.7	311.6	286.9	279.5	276.9
35°	8615.9	6882.4	2589.3	578.7	447.6	353.7	289.3	262.1	247.4	244.8	242.4
37.5°	8539.2	6659.8	1978.3	524.3	398.2	296.8	244.8	225.0	217.6	212.7	215.1
40°	8598.5	6474.3	1461.5	479.8	348.7	247.4	207.7	197.8	190.4	187.9	187.9
42.5°	8858.1	6442.1	1085.6	440.2	301.7	205.3	180.5	173.2	168.2	165.6	168.2
45°	9540.8	6639.9	843.2	403.1	254.7	173.2	153.3	150.8	148.4	148.4	148.4
47.5°	10567.0	7048.0	702.4	361.1	212.7	148.4	133.6	131.1	128.5	131.1	131.1
50°	12305.5	7794.9	628.2	319.0	175.6	126.1	113.7	113.7	113.7	113.7	116.2
52.5°	14949.1	9263.9	578.7	276.9	143.4	106.3	96.5	96.5	99.0	99.0	101.4
55°	17894.4	11212.5	534.1	234.9	121.2	89.0	79.1	81.6	84.1	86.5	86.5
57.5°	21089.6	13371.5	497.0	192.9	103.8	71.8	66.7	69.2	71.8	76.6	76.6
60°	24944.9	15708.3	442.7	150.8	86.5	57.0	51.9	57.0	64.3	69.2	71.8
62.5°	29178.7	17968.6	373.4	118.7	71.8	44.6	42.0	51.9	61.9	66.7	69.2
65°	32072.0	18678.4	286.9	96.5	54.3	32.2	34.7	47.0	59.4	66.7	66.7
67°	30899.9	16934.9	234.9	81.6	44.6	24.8	32.2	47.0	59.4	64.3	66.7
67.5°	30086.3	16252.5	225.0	79.1	42.0	24.8	32.2	47.0	59.4	66.7	66.7
70°	24480.0	12209.1	187.9	59.4	34.7	22.3	27.2	44.6	57.0	64.3	64.3
72.5°	17009.1	7527.7	168.2	42.0	29.6	19.9	24.8	42.0	54.3	61.9	64.3
75°	8086.6	2725.2	143.4	32.2	27.2	17.2	22.3	42.0	54.3	61.9	61.9
77.5°	1649.5	633.0	116.2	27.2	22.3	17.2	19.9	39.5	51.9	59.4	59.4
80°	541.6	244.8	86.5	24.8	22.3	17.2	19.9	37.1	51.9	57.0	59.4
82.5°	390.8	123.6	57.0	24.8	22.3	17.2	17.2	37.1	49.4	57.0	57.0
85°	299.2	86.5	37.1	24.8	22.3	17.2	17.2	34.7	47.0	54.3	54.3
87.5°	197.8	34.7	29.6	24.8	22.3	17.2	17.2	34.7	44.6	51.9	54.3
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)