

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: P191868

Luminaire Tested: **GLEON-AF-10-LED-E1-SL2-7050-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191868
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-SL2-7050-1200-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 5000K, 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: 53533 lumens
Efficiency: N/A
Efficacy: 83.6 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): 640
Input Voltage (V): NR
Input Current (A_{in}): 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

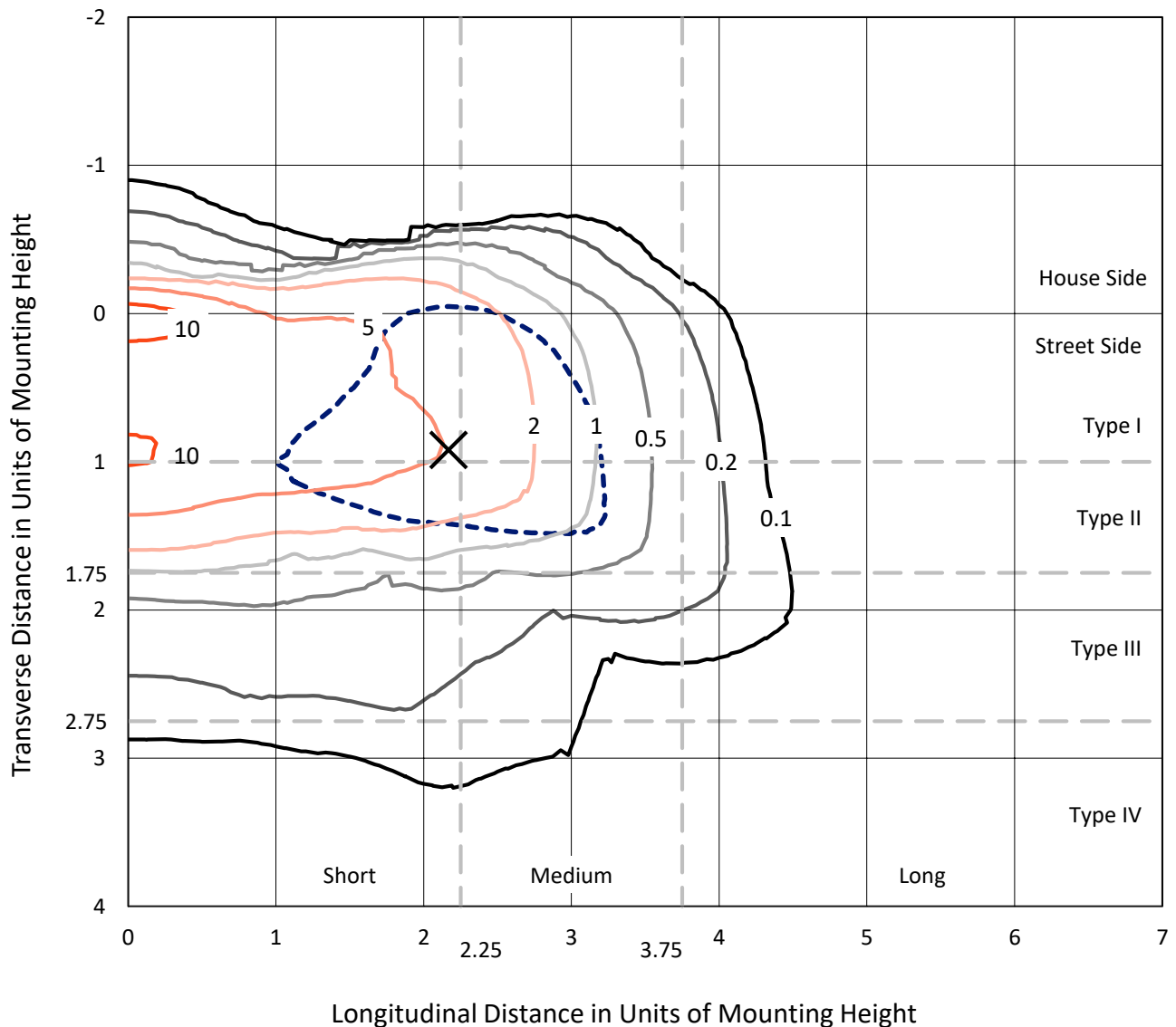


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Iso-Footcandle Lines of Horizontal Illumination

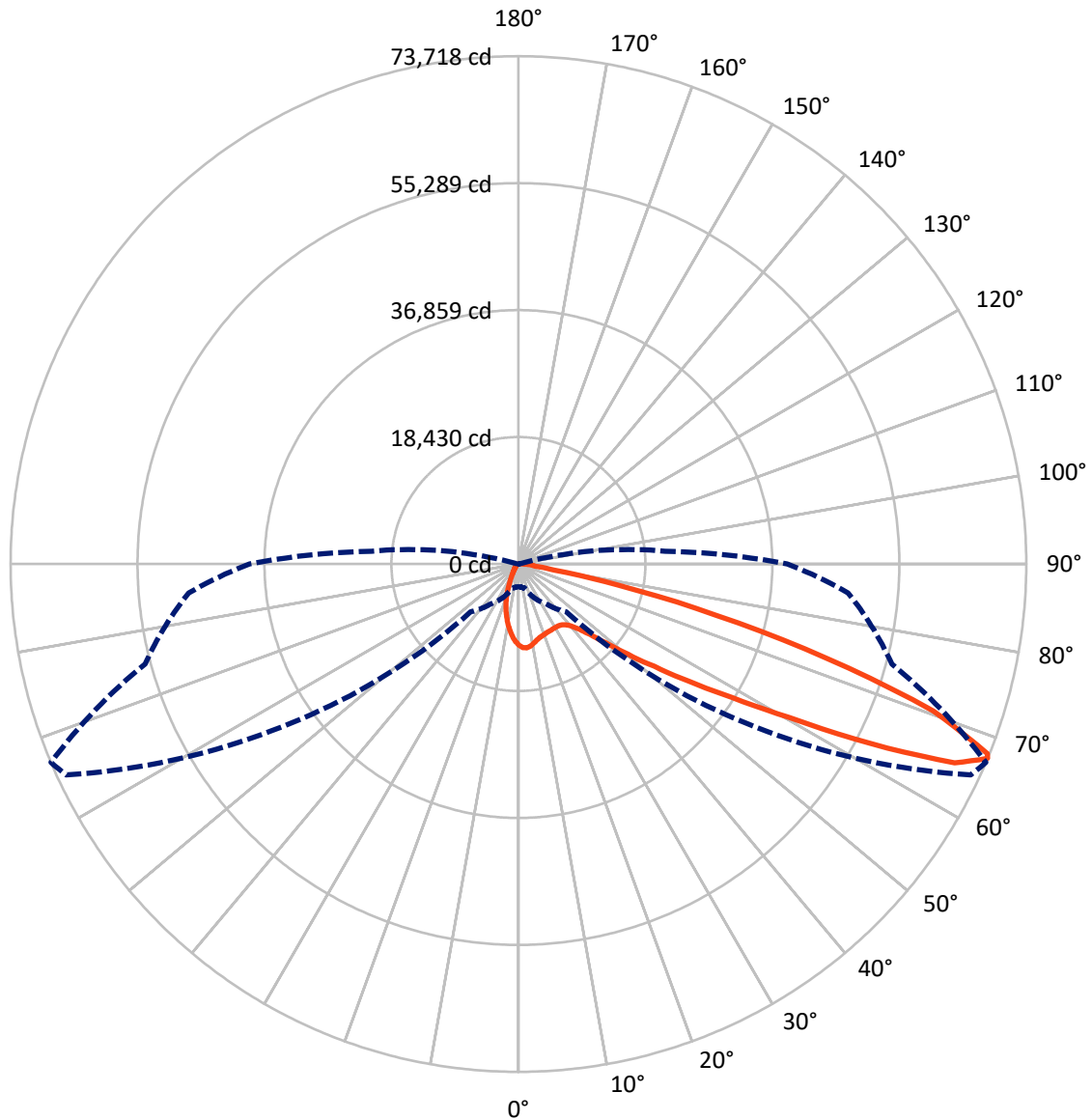
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 13.1 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	5558.3	0.0	5558.3
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	47974.7	0.0	47974.7
	% Fixture	89.6	0.0	89.6
Total	Lumens	53533.0	0.0	53533.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	960.6	1.8
10°-20°	2044.6	3.8
20°-30°	2972.7	5.6
30°-40°	4637.5	8.7
40°-50°	8215.1	15.3
50°-60°	12999.5	24.3
60°-70°	14889.2	27.8
70°-80°	6175.9	11.5
80°-90°	637.9	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°	53533.0	100.0
0°-180°	53533.0	100.0

Coefficient of Utilization



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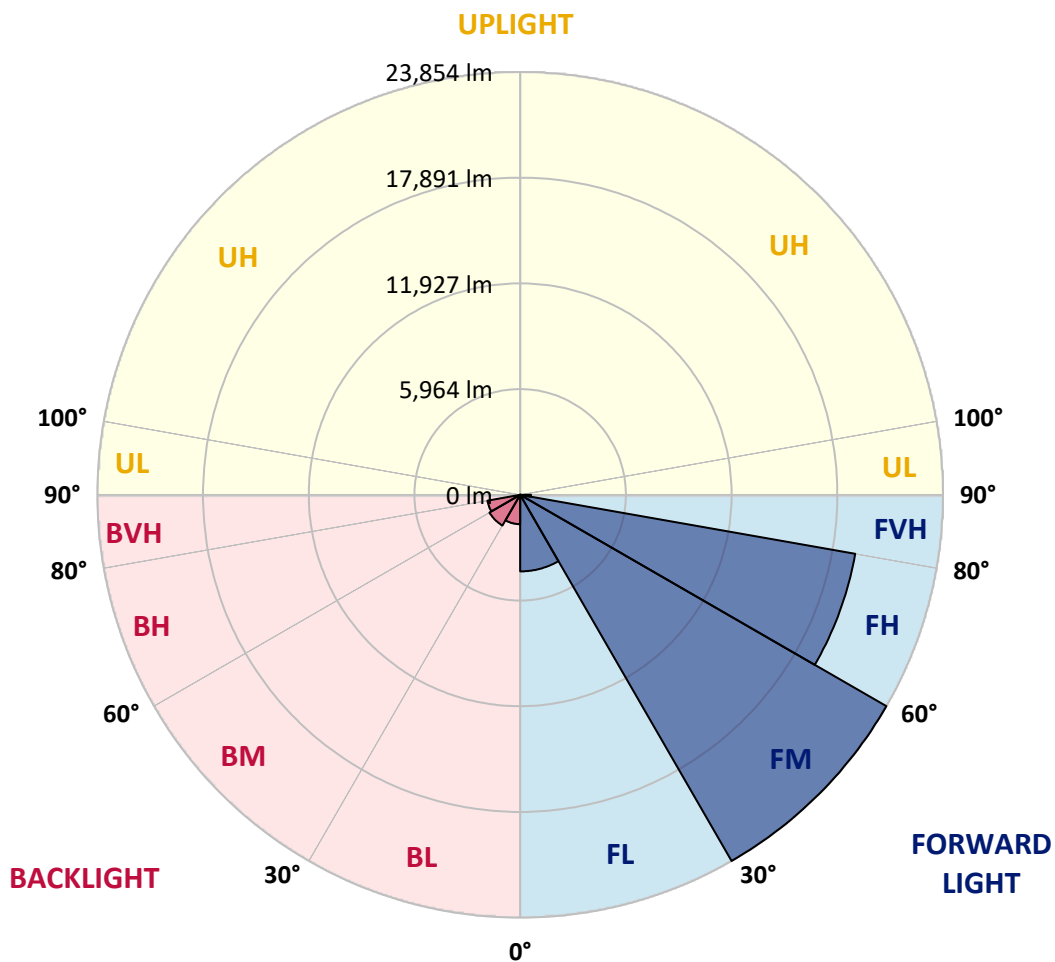
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4319.3	8.1			
FM	(30°-60°)	23854.4	44.6			
FH	(60°-80°)	19191.7	35.9			G5
FVH	(80°-90°)	609.2	1.1			G4/750
BL	(0°-30°)	1658.6	3.1	B3/2500		
BM	(30°-60°)	1997.6	3.7	B2/2500		
BH	(60°-80°)	1873.4	3.5	B3/2500		G3/2500
BVH	(80°-90°)	28.7	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°	11806.0	11806.0	11806.0	11806.0	11806.0	11806.0	11806.0	11806.0	11806.0	11806.0	11806.0
2.5°	12205.7	12230.7	12227.5	12246.3	12290.0	12293.1	12249.4	12165.1	12146.4	12037.1	11846.6
5°	11256.5	11328.3	11372.0	11550.0	11749.8	11990.2	12171.3	12236.9	12227.5	12149.5	11862.2
7.5°	10173.0	10244.8	10294.7	10503.9	10769.3	11181.5	11653.0	12040.2	12074.5	12158.8	11849.7
10°	9451.7	9464.2	9532.9	9732.7	10010.6	10432.1	10994.2	11671.7	11774.8	12083.9	11818.5
12.5°	8858.4	8867.8	8958.3	9173.8	9470.4	9895.1	10485.2	11268.9	11428.2	11990.2	11812.2
15°	8436.9	8471.2	8552.4	8777.2	9092.6	9514.1	10119.9	10972.3	11162.8	11955.9	11868.5
17.5°	8296.4	8333.8	8358.8	8521.2	8808.4	9220.6	9842.0	10778.7	10994.2	11974.6	11977.7
20°	8443.1	8471.2	8415.0	8455.6	8633.6	9002.0	9607.8	10613.2	10869.3	11996.5	12118.2
22.5°	8989.5	9002.0	8849.0	8671.1	8639.8	8842.8	9423.6	10482.1	10756.9	12055.8	12283.7
25°	9926.3	9904.4	9654.6	9270.6	8908.4	8814.7	9314.3	10400.9	10700.7	12118.2	12455.5
27.5°	11056.6	11087.8	10744.4	10185.4	9495.4	9002.0	9298.7	10366.6	10675.7	12162.0	12605.4
30°	12430.5	12474.2	12080.8	11378.2	10388.4	9464.2	9442.3	10360.3	10660.1	12133.9	12617.8
32.5°	13832.5	13885.6	13576.4	12852.0	11581.2	10238.5	9767.0	10429.0	10691.3	12037.1	12546.0
35°	15300.0	15375.0	15168.9	14547.5	13198.6	11356.4	10338.4	10638.2	10838.0	12027.7	12474.2
37.5°	17326.5	17395.2	17008.0	16349.2	15156.4	12855.1	11256.5	11031.6	11184.6	12177.6	12492.9
40°	20352.2	20342.8	19343.6	18335.1	17307.8	14759.8	12546.0	11743.6	11821.6	12630.3	12724.0
42.5°	23649.5	23633.9	22156.9	20623.8	19696.4	17104.8	14241.5	12973.8	12920.7	13464.0	13323.5
45°	26191.2	26188.0	24982.8	23256.0	22572.2	19796.4	16433.5	14684.9	14603.7	14819.2	14428.9
47.5°	27274.6	27293.4	26687.6	25473.0	25760.3	23437.1	19196.9	17164.1	17042.4	16954.9	16361.7
50°	26431.6	26469.1	26519.0	26281.7	28099.0	28330.0	22903.2	20658.2	20598.8	20208.5	19281.2
52.5°	23677.6	23868.0	24455.1	25207.6	28910.8	33026.2	28714.1	24998.4	24679.9	24264.6	23243.6
55°	19037.6	19246.8	20361.5	22188.2	27702.4	36111.2	36857.5	30593.8	30063.0	28823.4	27349.6
57.5°	12599.1	12923.8	14541.3	16864.4	24192.8	36607.7	44982.1	38359.4	36510.9	33116.8	31455.6
60°	6941.2	7253.5	9008.3	11112.8	17473.3	34153.4	50446.4	48469.9	45203.8	37916.0	36442.2
62.5°	4274.6	4443.3	5739.1	7696.9	10479.0	26956.2	51576.7	61175.1	57393.9	44095.3	42465.4
65°	3403.5	3475.3	4109.2	6291.7	7512.6	16033.8	47926.6	70861.0	69599.5	51576.7	47857.9
67°	3303.6	3331.7	3631.4	5401.8	7081.7	9829.5	40151.7	72437.8	73718.0	56104.3	48026.5
67.5°	3325.4	3356.6	3640.8	5155.2	7069.2	9033.3	37472.6	71816.5	73433.9	56463.4	47280.2
70°	3206.8	3303.6	4168.5	5152.1	6722.6	7506.4	22441.1	62224.3	63907.3	52463.5	40117.3
72.5°	1136.6	1142.8	1801.7	4168.5	7309.7	7587.6	11268.9	45615.9	46861.8	40132.9	28923.3
75°	674.5	574.5	599.5	1186.5	6984.9	7369.0	6501.0	29148.1	29613.4	22996.9	14647.4
77.5°	465.2	405.9	418.4	524.6	2660.3	7266.0	5164.5	15200.1	14703.6	8065.3	3119.3
80°	265.4	234.2	249.8	459.0	968.0	6778.9	4871.0	6163.7	5255.1	1367.6	861.8
82.5°	140.5	118.7	143.6	377.8	674.5	4224.7	4880.4	2978.8	2360.6	462.1	587.0
85°	50.0	40.6	68.7	259.2	449.6	1295.8	4524.4	2504.2	1967.1	224.8	446.5
87.5°	9.4	9.4	28.1	106.2	181.1	396.6	2675.9	1486.3	996.1	134.3	306.0
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°	11806.0	11806.0	11806.0	11806.0	11806.0	11806.0	11806.0	11806.0	11806.0	11806.0	11806.0
2.5°	11768.5	11634.3	11453.2	11231.5	10969.2	10738.1	10566.4	10388.4	10350.9	10288.5	10279.1
5°	11690.5	11459.4	11009.8	10494.6	9945.0	9448.5	9045.8	8686.7	8527.4	8390.0	8374.4
7.5°	11574.9	11228.3	10463.3	9632.8	8774.1	7993.5	7331.5	6863.2	6432.3	6226.2	6195.0
10°	11440.7	10944.2	9848.2	8696.0	7509.5	6407.3	5423.7	4599.4	4099.8	3803.2	3765.7
12.5°	11315.8	10666.3	9220.6	7725.0	6148.1	4674.3	3409.7	2622.9	2098.3	1886.0	1861.0
15°	11256.5	10441.5	8633.6	6732.0	4724.3	2975.7	1864.1	1442.6	1270.8	1220.9	1217.8
17.5°	11250.2	10251.0	8059.1	5704.7	3309.8	1729.8	1214.6	1108.5	1074.1	1061.6	1061.6
20°	11247.1	10069.9	7484.5	4640.0	2101.4	1152.2	1011.7	986.7	961.7	946.1	946.1
22.5°	11281.4	9907.6	6885.0	3553.4	1323.9	933.6	889.9	864.9	833.7	811.8	808.7
25°	11315.8	9782.7	6273.0	2529.2	958.6	811.8	768.1	733.8	690.1	662.0	658.8
27.5°	11322.0	9626.5	5617.3	1692.4	802.5	708.8	652.6	599.5	549.6	521.5	518.3
30°	11228.3	9364.2	4889.8	1142.8	708.8	615.1	540.2	484.0	437.1	415.3	415.3
32.5°	11044.1	9039.5	4090.4	861.8	630.7	527.7	446.5	393.4	362.2	352.8	349.7
35°	10878.6	8689.8	3269.2	730.7	565.2	446.5	365.3	331.0	312.2	309.1	306.0
37.5°	10781.8	8408.8	2498.0	662.0	502.7	374.7	309.1	284.1	274.8	268.5	271.7
40°	10856.8	8174.6	1845.4	605.8	440.3	312.2	262.3	249.8	240.4	237.3	237.3
42.5°	11184.6	8134.0	1370.8	555.8	380.9	259.2	227.9	218.6	212.3	209.2	212.3
45°	12046.4	8383.8	1064.8	509.0	321.6	218.6	193.6	190.5	187.3	187.3	187.3
47.5°	13342.3	8899.0	886.8	455.9	268.5	187.3	168.6	165.5	162.4	165.5	165.5
50°	15537.3	9842.0	793.1	402.8	221.7	159.2	143.6	143.6	143.6	143.6	146.8
52.5°	18875.2	11696.7	730.7	349.7	181.1	134.3	121.8	121.8	124.9	124.9	128.0
55°	22594.1	14157.2	674.5	296.6	153.0	112.4	99.9	103.0	106.2	109.3	109.3
57.5°	26628.3	16883.1	627.6	243.6	131.1	90.6	84.3	87.4	90.6	96.8	96.8
60°	31496.2	19833.8	558.9	190.5	109.3	71.8	65.6	71.8	81.2	87.4	90.6
62.5°	36841.8	22687.8	471.5	149.9	90.6	56.2	53.1	65.6	78.1	84.3	87.4
65°	40495.1	23583.9	362.2	121.8	68.7	40.6	43.7	59.3	74.9	84.3	84.3
67°	39015.1	21382.6	296.6	103.0	56.2	31.2	40.6	59.3	74.9	81.2	84.3
67.5°	37987.8	20520.8	284.1	99.9	53.1	31.2	40.6	59.3	74.9	84.3	84.3
70°	30909.2	15415.6	237.3	74.9	43.7	28.1	34.3	56.2	71.8	81.2	81.2
72.5°	21476.2	9504.8	212.3	53.1	37.5	25.0	31.2	53.1	68.7	78.1	81.2
75°	10210.4	3440.9	181.1	40.6	34.3	21.9	28.1	53.1	68.7	78.1	78.1
77.5°	2082.7	799.3	146.8	34.3	28.1	21.9	25.0	50.0	65.6	74.9	74.9
80°	683.8	309.1	109.3	31.2	28.1	21.9	25.0	46.8	65.6	71.8	74.9
82.5°	493.3	156.1	71.8	31.2	28.1	21.9	21.9	46.8	62.4	71.8	71.8
85°	377.8	109.3	46.8	31.2	28.1	21.9	21.9	43.7	59.3	68.7	68.7
87.5°	249.8	43.7	37.5	31.2	28.1	21.9	21.9	43.7	56.2	65.6	68.7
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)