

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: P191948

Luminaire Tested: **GLEON-AF-10-LED-E1-SL3-7050-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191948
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-10-LED-E1-SL3-7050-1200-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 5000K, 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: 55215 lumens
Efficiency: N/A
Efficacy: 86.3 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Non-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

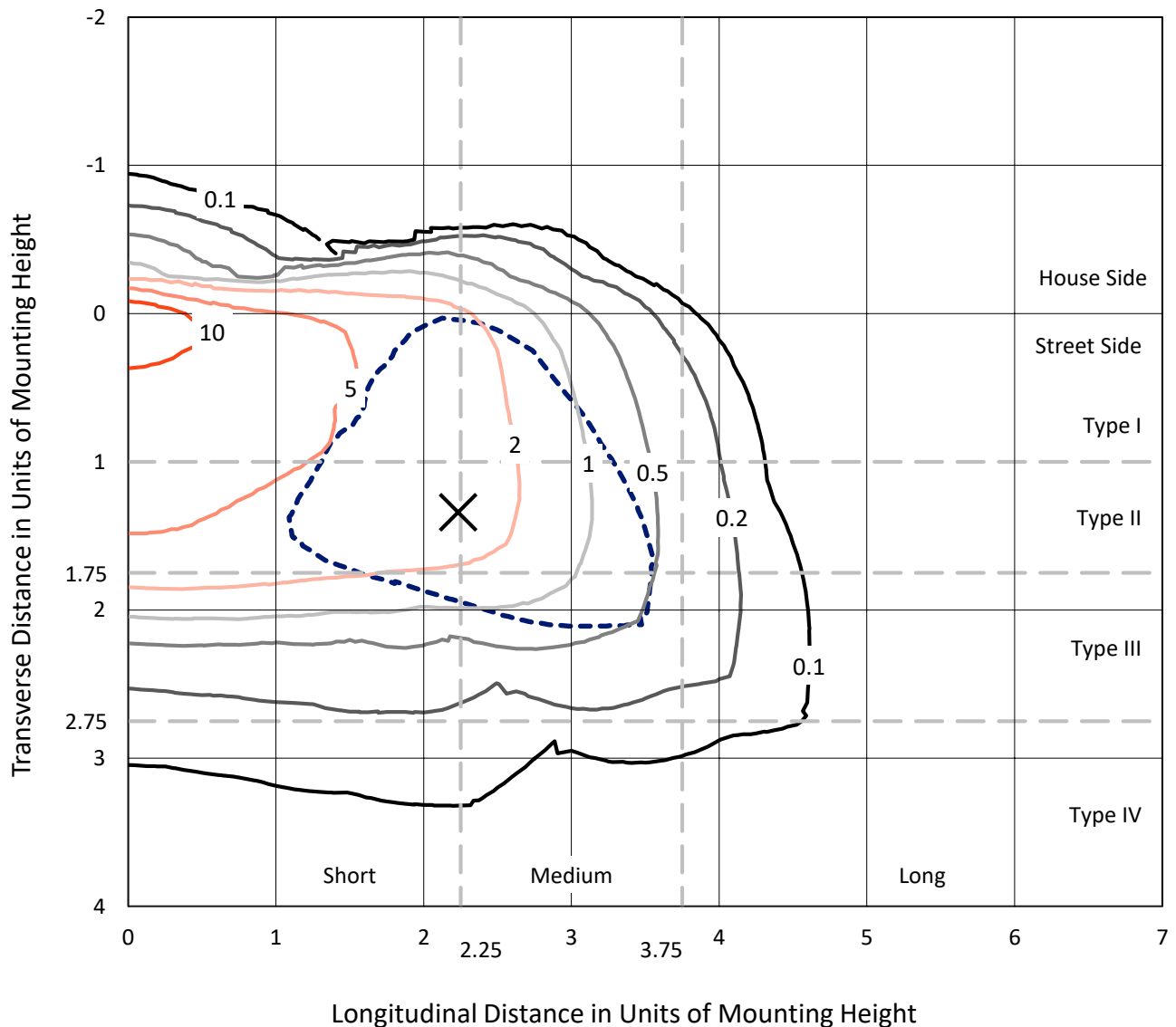


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

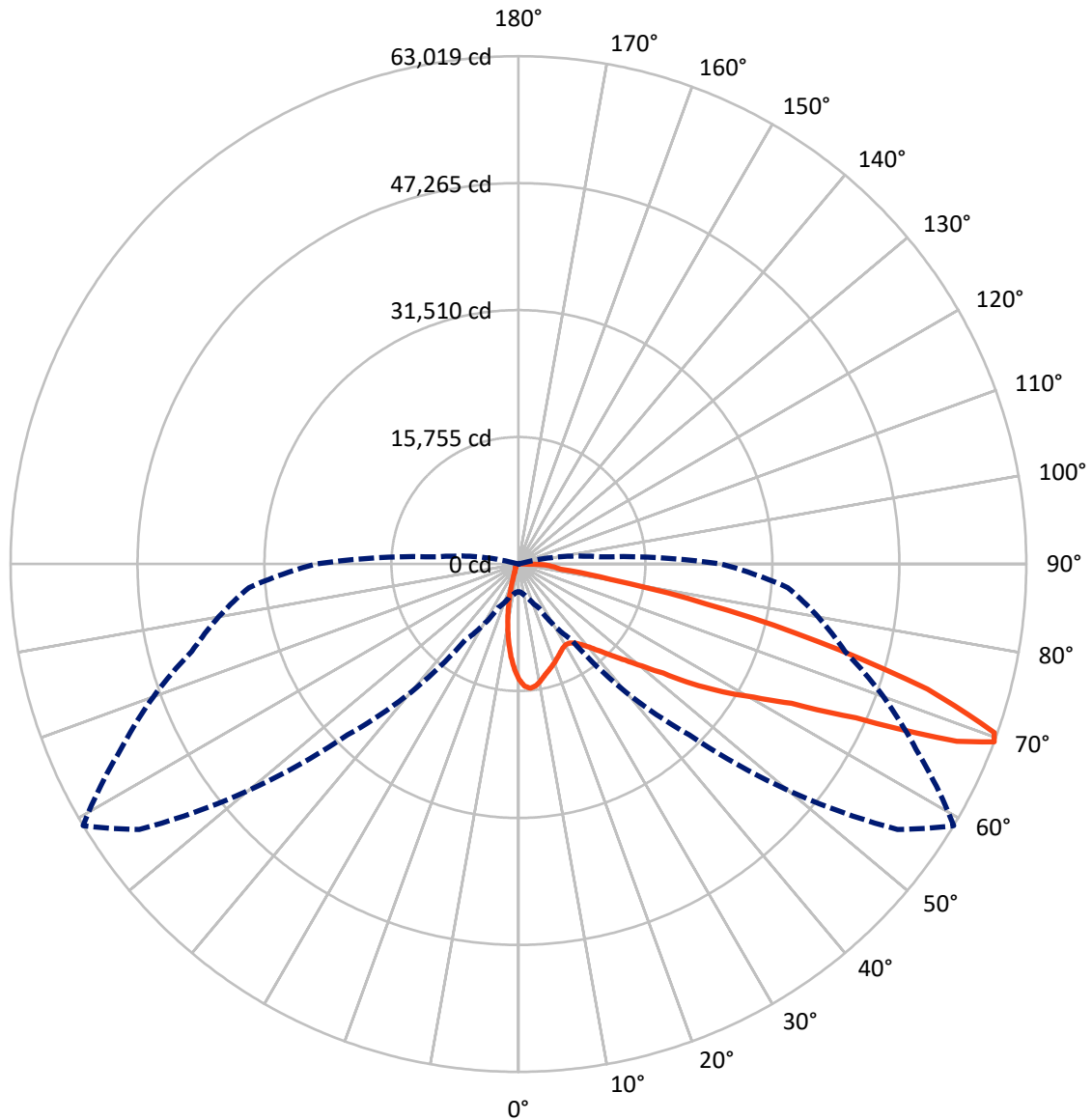


Based on 30 foot mounting height. Maximum calculated value = 16 fc
 Type III - Short - Non-Cutoff

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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	4496.5	0.0	4496.5
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	50718.5	0.0	50718.5
	% Fixture	91.9	0.0	91.9
Total	Lumens	55215.0	0.0	55215.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1166.6	2.1
10°-20°	2410.4	4.4
20°-30°	3243.5	5.9
30°-40°	4709.4	8.5
40°-50°	7841.5	14.2
50°-60°	12232.6	22.2
60°-70°	15137.0	27.4
70°-80°	7671.2	13.9
80°-90°	802.7	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°	55215.0	100.0
0°-180°	55215.0	100.0



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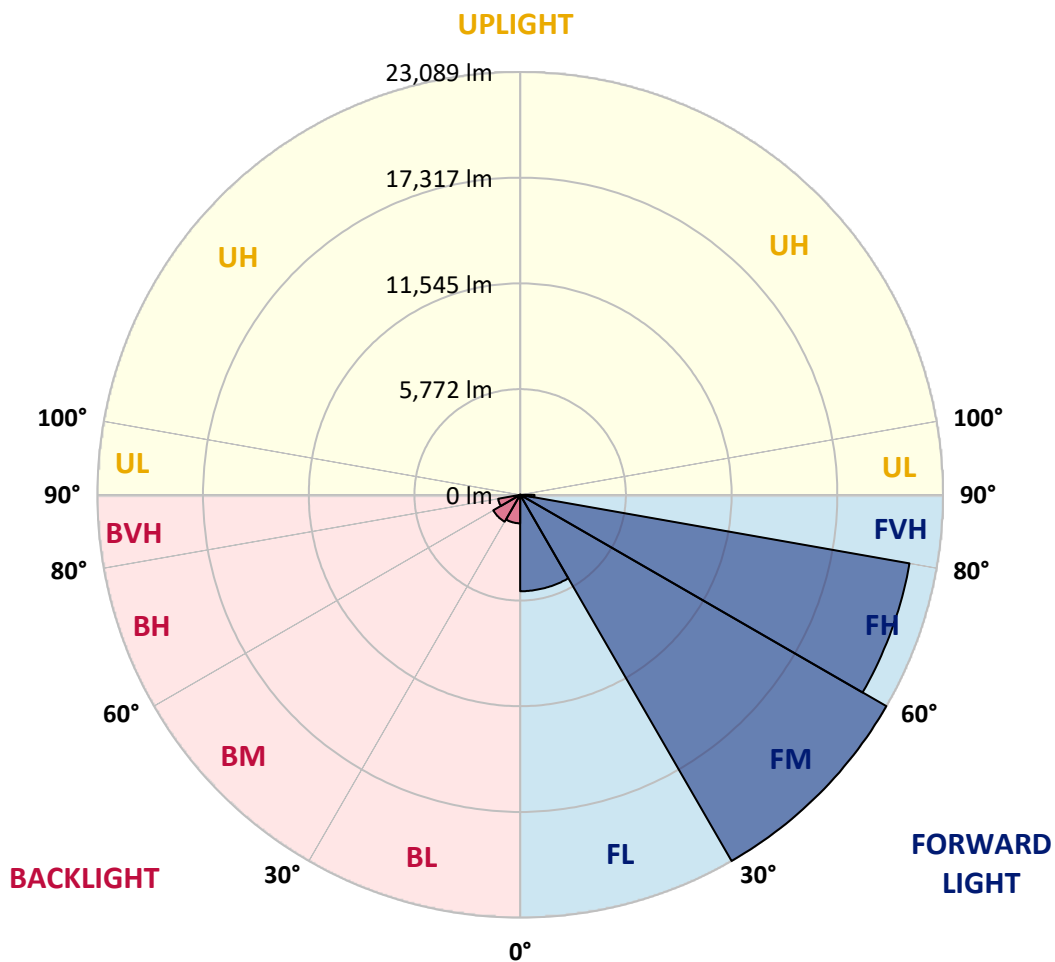
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5264.1	9.5			
FM (30°-60°)	23089.3	41.8			
FH (60°-80°)	21587.1	39.1			G5
FVH (80°-90°)	778.0	1.4			G5
BL (0°-30°)	1556.4	2.8	B3/2500		
BM (30°-60°)	1694.3	3.1	B2/2500		
BH (60°-80°)	1221.1	2.2	B3/2500		G3/2500
BVH (80°-90°)	24.7	0.0			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	14371.7	14371.7	14371.7	14371.7	14371.7	14371.7	14371.7	14371.7	14371.7	14371.7	14371.7
2.5°	15751.7	15745.5	15676.8	15645.6	15589.4	15470.7	15286.5	15189.7	15033.6	14762.0	14396.7
5°	15608.1	15683.0	15723.6	15726.8	15767.3	15723.6	15558.2	15477.0	15261.5	14824.4	14168.8
7.5°	14634.0	14662.1	14777.6	14877.5	15071.1	15255.3	15314.6	15280.3	15152.3	14683.9	13812.8
10°	13591.1	13619.2	13756.6	13887.8	14150.0	14434.1	14733.9	14796.3	14849.4	14484.1	13469.4
12.5°	12691.9	12720.0	12860.5	13032.3	13338.2	13687.9	14153.1	14256.2	14490.3	14293.6	13194.6
15°	11917.6	11930.1	12067.5	12279.8	12645.1	13094.7	13622.4	13787.8	14146.9	14159.4	12954.2
17.5°	11258.8	11290.0	11374.3	11577.3	11976.9	12532.7	13147.8	13385.1	13806.6	14047.0	12720.0
20°	10856.1	10887.3	10884.2	10996.6	11355.6	11948.8	12673.2	12957.3	13469.4	13931.5	12510.8
22.5°	10778.0	10778.0	10696.8	10681.2	10893.5	11390.0	12179.9	12526.5	13166.5	13881.5	12364.1
25°	11055.9	11043.4	10840.4	10675.0	10684.3	10980.9	11702.2	12114.3	12910.5	13915.9	12286.0
27.5°	11642.9	11627.2	11371.2	11055.9	10803.0	10799.9	11340.0	11783.4	12707.5	14078.2	12317.3
30°	12454.6	12448.4	12170.5	11774.0	11315.0	10893.5	11215.1	11617.9	12576.4	14371.7	12389.1
32.5°	13341.4	13332.0	13122.8	12704.4	12123.7	11315.0	11346.2	11683.4	12613.9	14762.0	12563.9
35°	14281.2	14265.5	14175.0	13809.7	13169.6	12092.5	11777.1	12039.4	12851.2	15345.8	12907.4
37.5°	15299.0	15314.6	15380.2	15030.5	14359.2	13182.1	12498.4	12676.3	13328.9	16138.9	13466.2
40°	16800.8	16797.7	16819.5	16360.6	15714.3	14515.3	13506.8	13563.0	14128.2	17191.1	14315.5
42.5°	19526.5	19336.1	18758.5	17821.8	17172.4	16039.0	14777.6	14718.3	15105.4	18493.1	15505.1
45°	23188.9	22783.0	21284.4	19489.1	18658.5	17756.2	16341.8	16151.4	16398.0	20057.3	16972.5
47.5°	26339.3	25917.8	23797.8	21225.0	20235.3	19386.0	18174.6	17831.2	17912.3	21808.9	18833.4
50°	27410.2	27204.1	25352.6	22736.2	21762.1	21437.3	20300.8	19882.5	19766.9	23835.2	20990.9
52.5°	27038.7	27023.0	25789.8	23716.6	23160.8	23560.5	22976.6	22492.7	22068.0	25970.8	23185.8
55°	26442.3	26520.4	25967.7	24575.2	24556.5	25499.4	26635.9	26233.1	25003.0	28290.7	25077.9
57.5°	24796.9	25131.0	25867.8	26198.8	26966.8	27931.6	29683.2	29920.5	28465.5	30067.2	26648.4
60°	20119.8	20853.5	23263.9	26432.9	30073.5	32477.6	33361.2	33564.2	31306.8	31544.1	28768.4
62.5°	14281.2	15030.5	18087.2	23448.1	30120.3	38450.5	38840.7	38044.6	34435.3	33732.8	32424.5
65°	7580.8	8158.4	10656.2	16925.7	26114.5	39836.7	48422.9	46050.0	39955.4	38038.3	37148.5
67.5°	3877.8	4052.7	5045.6	8283.3	17952.9	35384.4	57012.2	58682.6	49468.9	42309.6	36920.6
69°	3431.3	3534.4	4193.2	5988.5	11496.1	29970.4	57430.6	63019.4	54448.9	41953.6	33551.7
70°	3322.1	3412.6	4012.1	5420.2	8985.8	25134.1	55828.9	62638.5	55722.7	40598.6	31035.1
72.5°	2819.4	2897.4	3571.9	4789.5	7302.9	12476.5	45350.6	53078.2	50002.8	33820.2	22464.6
75°	1885.8	2141.9	3428.2	4489.8	6794.0	7087.5	29898.6	38356.8	35631.1	22811.1	11702.2
77.5°	452.7	487.1	967.9	3571.9	6213.3	6238.2	15377.1	23844.6	19448.5	8130.3	2766.3
80°	243.5	234.2	271.6	708.7	5785.5	5854.2	6922.0	11574.2	6943.9	1348.8	911.7
82.5°	171.7	162.4	174.8	296.6	1820.3	5332.8	5008.1	5239.1	2878.7	518.3	409.0
85°	62.4	59.3	96.8	268.5	571.4	3066.0	5145.5	4321.2	2332.3	237.3	299.7
87.5°	21.9	18.7	37.5	146.7	174.8	1305.1	3175.3	3265.9	917.9	143.6	140.5
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°	14371.7	14371.7	14371.7	14371.7	14371.7	14371.7	14371.7	14371.7	14371.7	14371.7	14371.7
2.5°	14243.7	14050.1	13694.2	13328.9	12991.7	12585.8	12382.8	12183.0	12098.7	12067.5	11920.7
5°	13831.6	13503.7	12748.1	11989.4	11290.0	10546.9	10056.8	9663.4	9432.3	9319.9	9141.9
7.5°	13303.9	12766.9	11621.0	10450.2	9360.5	8286.4	7490.3	6878.3	6456.8	6253.9	6069.6
10°	12791.8	12076.8	10447.0	8851.6	7371.6	5947.9	4848.8	4052.7	3543.7	3309.6	3159.7
12.5°	12332.9	11405.6	9313.7	7293.6	5435.8	3768.6	2650.8	2017.0	1701.6	1592.3	1539.3
15°	11923.9	10787.4	8242.7	5813.6	3681.1	2154.4	1448.7	1233.3	1183.3	1183.3	1177.1
17.5°	11536.7	10181.6	7209.3	4424.2	2310.5	1317.6	1102.2	1074.1	1074.1	1086.5	1086.5
20°	11165.2	9604.0	6210.1	3175.3	1455.0	1046.0	996.0	989.8	996.0	1011.6	1011.6
22.5°	10846.7	9079.5	5276.6	2179.3	1080.3	942.9	917.9	908.6	911.7	921.1	927.3
25°	10609.4	8636.1	4396.1	1476.8	930.4	858.6	830.5	814.9	802.4	802.4	808.7
27.5°	10459.5	8261.5	3543.7	1074.1	836.8	780.6	736.9	711.9	683.8	668.2	674.4
30°	10350.2	7905.5	2744.5	877.4	749.3	693.1	636.9	596.3	555.8	537.0	543.3
32.5°	10309.7	7618.3	2051.3	774.3	671.3	608.8	540.1	487.1	443.4	427.7	430.9
35°	10418.9	7390.4	1501.8	699.4	608.8	530.8	452.7	393.4	359.1	349.7	352.8
37.5°	10706.2	7268.6	1124.0	636.9	552.6	465.2	377.8	321.6	299.7	299.7	302.9
40°	11249.5	7265.5	902.3	593.2	502.7	402.8	312.2	271.6	259.1	265.4	268.5
42.5°	12042.5	7430.9	786.8	552.6	459.0	343.4	259.1	231.0	227.9	234.2	237.3
45°	13125.9	7733.8	724.4	518.3	412.1	287.2	218.6	199.8	199.8	209.2	212.3
47.5°	14452.9	8177.2	671.3	483.9	365.3	240.4	187.3	174.8	178.0	187.3	190.5
50°	16051.5	8736.0	618.2	446.5	331.0	199.8	162.4	153.0	156.1	168.6	171.7
52.5°	17871.7	9488.5	574.5	412.1	287.2	165.5	137.4	131.1	137.4	149.9	153.0
55°	19432.9	10162.9	521.4	384.0	231.0	137.4	112.4	112.4	118.6	134.3	137.4
57.5°	20934.7	10868.5	474.6	331.0	181.1	109.3	93.7	96.8	106.2	121.8	124.9
60°	23139.0	12064.4	418.4	277.9	137.4	87.4	78.1	81.2	93.7	109.3	112.4
62.5°	26882.5	13884.6	362.2	231.0	106.2	68.7	62.4	68.7	84.3	103.0	106.2
65°	30260.8	14624.6	296.6	193.6	81.2	53.1	53.1	62.4	81.2	99.9	103.0
67.5°	28378.1	12311.0	231.0	153.0	62.4	40.6	43.7	59.3	78.1	99.9	103.0
69°	25096.6	10066.1	196.7	121.8	53.1	37.5	40.6	59.3	78.1	96.8	99.9
70°	22539.5	8498.8	174.8	103.0	46.8	37.5	40.6	56.2	78.1	96.8	99.9
72.5°	15096.1	4589.7	140.5	74.9	43.7	34.3	34.3	56.2	74.9	93.7	96.8
75°	6488.0	1267.6	112.4	53.1	37.5	31.2	31.2	53.1	71.8	90.5	96.8
77.5°	1186.5	321.6	90.5	46.8	37.5	31.2	28.1	50.0	68.7	87.4	90.5
80°	471.5	159.2	71.8	40.6	34.3	28.1	25.0	46.8	65.6	84.3	87.4
82.5°	284.1	90.5	59.3	37.5	34.3	25.0	21.9	40.6	62.4	81.2	84.3
85°	231.0	62.4	46.8	37.5	31.2	25.0	18.7	37.5	56.2	78.1	81.2
87.5°	112.4	43.7	43.7	34.3	31.2	25.0	18.7	34.3	53.1	74.9	78.1
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)