

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: P191938

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191938  
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-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 70 CRI, 5000K, 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: 50334 lumens  
Efficiency: N/A  
Efficacy: 90.2 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): 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

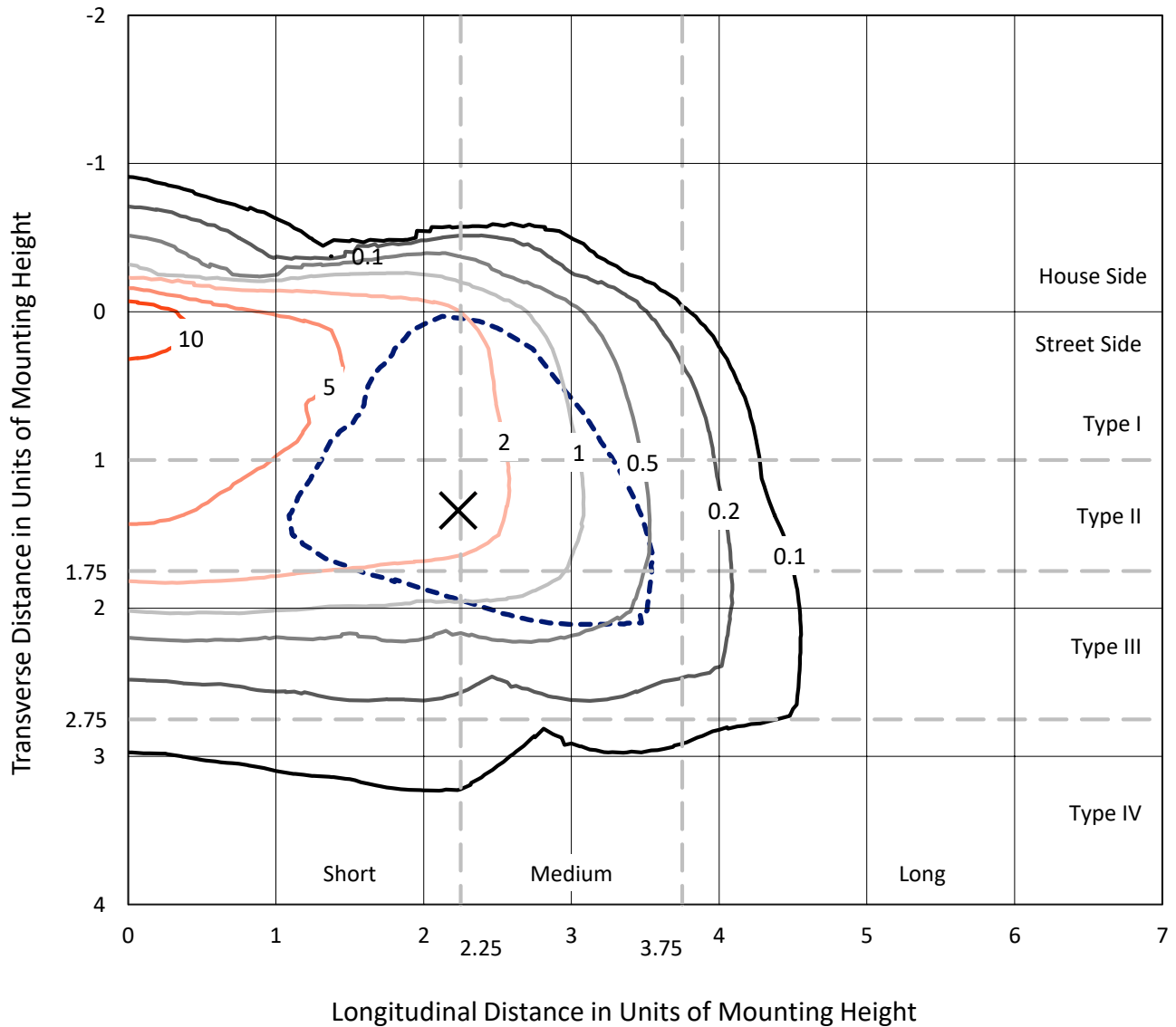


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

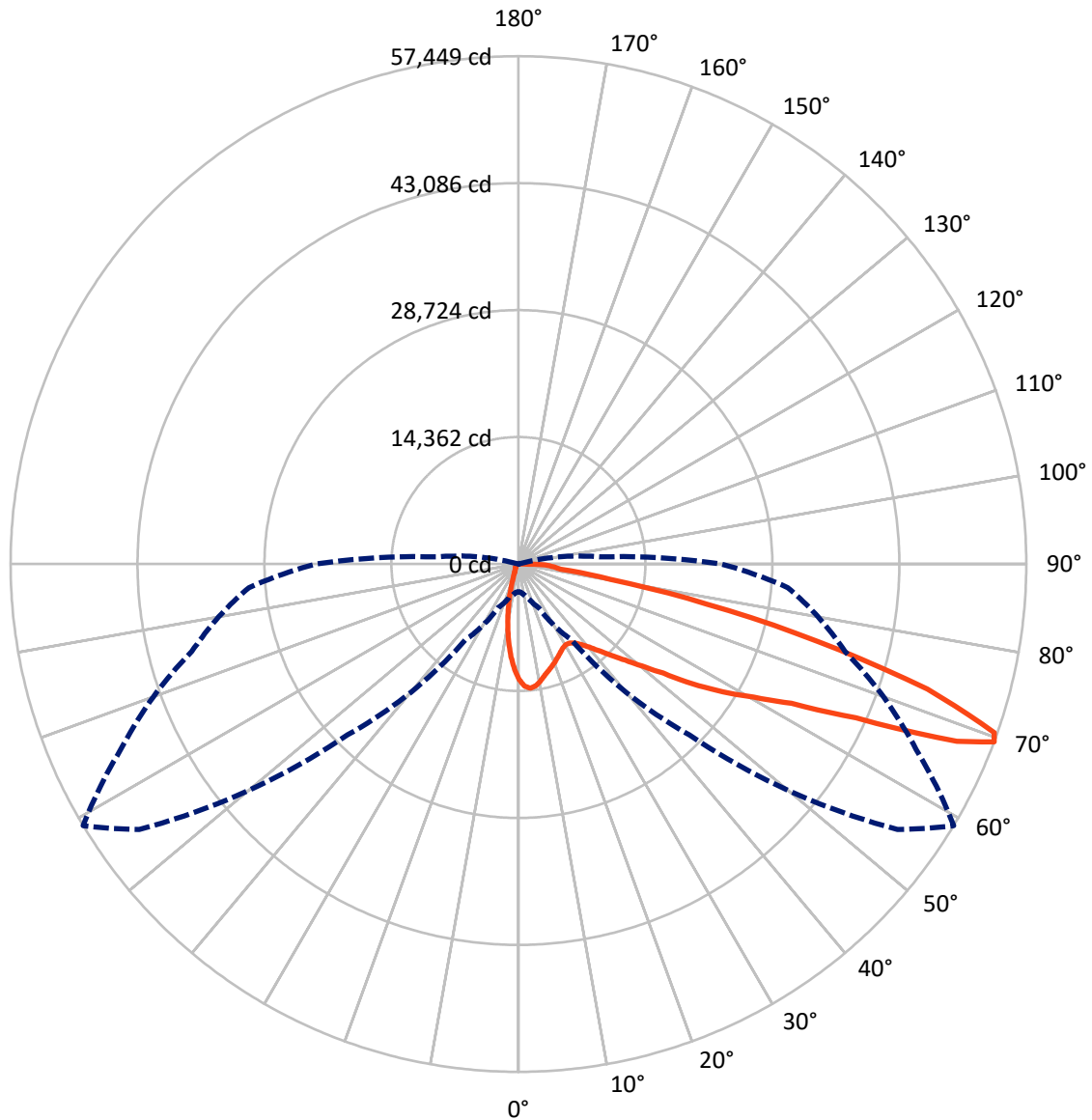


Based on 30 foot mounting height. Maximum calculated value = 14.6 fc  
 Type III - Short - Non-Cutoff

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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
<b>House Side</b>	Lumens	4099.0	0.0	4099.0
	% Fixture	8.1	0.0	8.1
<b>Street Side</b>	Lumens	46235.0	0.0	46235.0
	% Fixture	91.9	0.0	91.9
<b>Total</b>	Lumens	50334.0	0.0	50334.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1063.4	2.1
10°-20°	2197.3	4.4
20°-30°	2956.8	5.9
30°-40°	4293.1	8.5
40°-50°	7148.3	14.2
50°-60°	11151.3	22.2
60°-70°	13798.9	27.4
70°-80°	6993.1	13.9
80°-90°	731.7	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°	50334.0	100.0
0°-180°	50334.0	100.0



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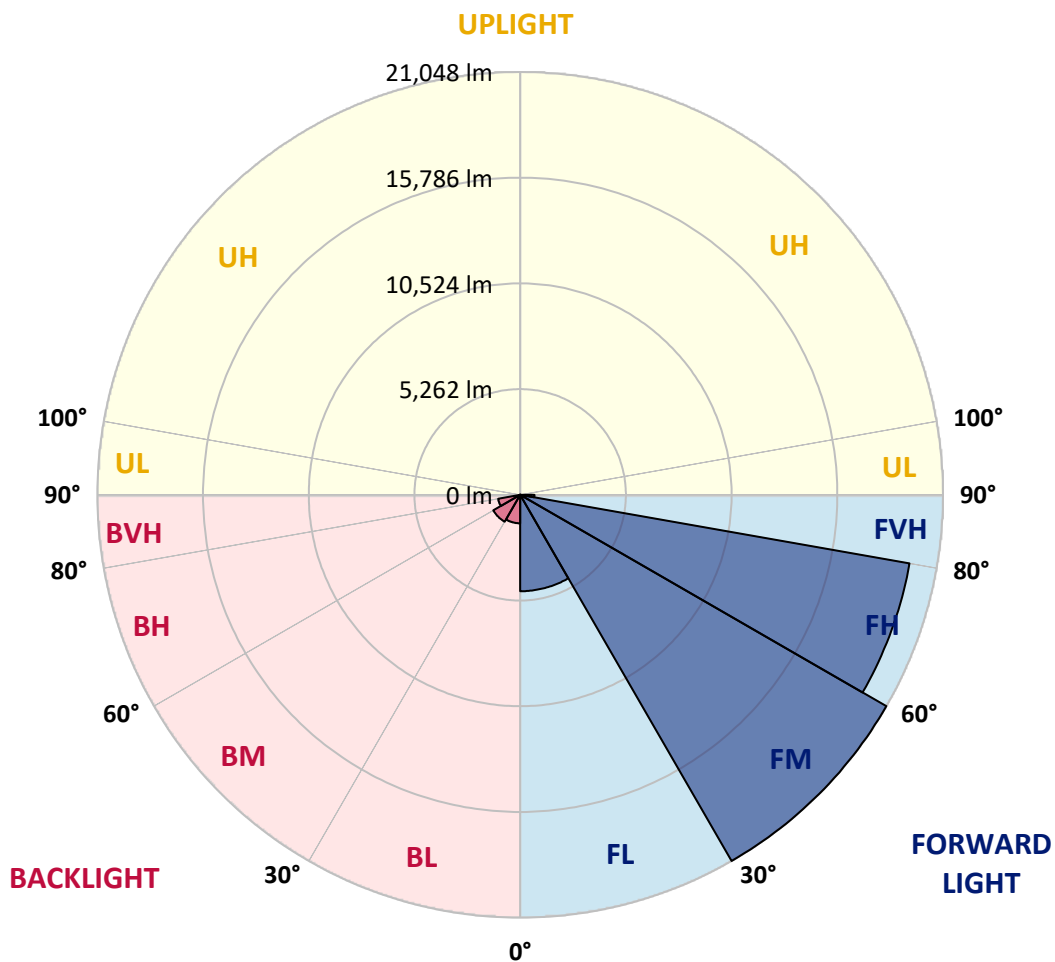
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4798.8	9.5			
FM (30°-60°)	21048.2	41.8			
FH (60°-80°)	19678.8	39.1			G5
FVH (80°-90°)	709.2	1.4			G4/750
BL (0°-30°)	1418.8	2.8	B3/2500		
BM (30°-60°)	1544.5	3.1	B2/2500		
BH (60°-80°)	1113.2	2.2	B3/2500		G3/2500
BVH (80°-90°)	22.5	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°	13101.2	13101.2	13101.2	13101.2	13101.2	13101.2	13101.2	13101.2	13101.2	13101.2	13101.2
2.5°	14359.3	14353.6	14291.0	14262.5	14211.3	14103.1	13935.2	13847.0	13704.6	13457.0	13124.0
5°	14228.4	14296.7	14333.7	14336.5	14373.5	14333.7	14182.8	14108.8	13912.4	13513.9	12916.2
7.5°	13340.3	13365.9	13471.3	13562.3	13738.8	13906.7	13960.8	13929.5	13812.8	13385.9	12591.8
10°	12389.7	12415.3	12540.5	12660.1	12899.2	13158.2	13431.4	13488.3	13536.7	13203.7	12278.7
12.5°	11570.0	11595.6	11723.7	11880.2	12159.1	12477.9	12902.0	12995.9	13209.4	13030.1	12028.2
15°	10864.1	10875.5	11000.7	11194.3	11527.3	11937.1	12418.1	12569.0	12896.3	12907.7	11809.1
17.5°	10263.5	10292.0	10368.9	10553.9	10918.2	11424.8	11985.5	12201.8	12586.1	12805.2	11595.6
20°	9896.4	9924.8	9922.0	10024.5	10351.8	10892.6	11552.9	11811.9	12278.7	12699.9	11404.9
22.5°	9825.2	9825.2	9751.2	9737.0	9930.5	10383.1	11103.2	11419.1	12002.6	12654.4	11271.1
25°	10078.5	10067.2	9882.1	9731.3	9739.8	10010.2	10667.7	11043.4	11769.2	12685.7	11200.0
27.5°	10613.6	10599.4	10366.0	10078.5	9848.0	9845.1	10337.5	10741.7	11584.2	12833.7	11228.4
30°	11353.7	11348.0	11094.6	10733.2	10314.8	9930.5	10223.7	10590.9	11464.7	13101.2	11293.9
32.5°	12162.0	12153.4	11962.7	11581.4	11052.0	10314.8	10343.2	10650.6	11498.8	13457.0	11453.3
35°	13018.7	13004.5	12921.9	12588.9	12005.4	11023.5	10736.0	10975.1	11715.1	13989.3	11766.4
37.5°	13946.6	13960.8	14020.6	13701.8	13089.9	12016.8	11393.5	11555.7	12150.6	14712.2	12275.8
40°	15315.6	15312.8	15332.7	14914.3	14325.1	13232.2	12312.8	12364.1	12879.2	15671.4	13050.0
42.5°	17800.4	17626.8	17100.2	16246.3	15654.3	14621.1	13471.3	13417.2	13770.1	16858.3	14134.4
45°	21139.0	20769.0	19402.8	17766.2	17009.1	16186.6	14897.2	14723.6	14948.5	18284.2	15472.2
47.5°	24010.9	23626.6	21694.0	19348.7	18446.5	17672.3	16568.0	16254.9	16328.9	19881.0	17168.5
50°	24987.1	24799.3	23111.5	20726.3	19838.3	19542.3	18506.3	18124.9	18019.5	21728.2	19135.3
52.5°	24648.4	24634.2	23509.9	21620.0	21113.4	21477.7	20945.5	20504.3	20117.2	23675.0	21136.2
55°	24104.8	24176.0	23672.2	22402.8	22385.7	23245.2	24281.3	23914.1	22792.7	25789.8	22861.0
57.5°	22604.8	22909.4	23581.1	23882.8	24583.0	25462.5	27059.2	27275.5	25949.2	27409.3	24292.7
60°	18341.2	19010.0	21207.3	24096.3	27415.0	29606.6	30412.1	30597.1	28539.3	28755.6	26225.3
62.5°	13018.7	13701.8	16488.3	21375.3	27457.7	35051.4	35407.2	34681.4	31391.2	30750.8	29558.2
65°	6910.7	7437.2	9714.2	15429.5	23806.0	36315.2	44142.3	41979.2	36423.3	34675.7	33864.6
67.5°	3535.0	3694.4	4599.5	7551.1	16365.9	32256.4	51972.3	53495.1	45095.8	38569.4	33656.8
69°	3128.0	3221.9	3822.5	5459.1	10479.9	27321.1	52353.7	57448.5	49635.6	38244.9	30585.7
70°	3028.4	3110.9	3657.4	4941.1	8191.5	22912.2	50893.6	57101.3	50796.9	37009.7	28291.6
72.5°	2570.2	2641.3	3256.1	4366.1	6657.4	11373.6	41341.6	48386.1	45582.5	30830.5	20478.7
75°	1719.1	1952.5	3125.2	4092.9	6193.4	6461.0	27255.6	34966.1	32481.3	20794.6	10667.7
77.5°	412.7	444.0	882.3	3256.1	5664.0	5686.8	14017.7	21736.7	17729.2	7411.6	2521.8
80°	222.0	213.5	247.6	646.1	5274.1	5336.7	6310.1	10551.0	6330.0	1229.6	831.1
82.5°	156.5	148.0	159.4	270.4	1659.4	4861.4	4565.4	4776.0	2624.2	472.5	372.9
85°	56.9	54.1	88.2	244.8	520.9	2795.0	4690.6	3939.2	2126.1	216.3	273.2
87.5°	19.9	17.1	34.2	133.8	159.4	1189.7	2894.6	2977.2	836.8	130.9	128.1
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°	13101.2	13101.2	13101.2	13101.2	13101.2	13101.2	13101.2	13101.2	13101.2	13101.2	13101.2
2.5°	12984.5	12808.1	12483.6	12150.6	11843.2	11473.2	11288.2	11106.0	11029.2	11000.7	10866.9
5°	12608.8	12310.0	11621.2	10929.6	10292.0	9614.6	9167.7	8809.1	8598.5	8496.0	8333.8
7.5°	12127.8	11638.3	10593.7	9526.4	8533.0	7553.9	6828.1	6270.3	5886.0	5701.0	5533.1
10°	11661.0	11009.3	9523.5	8069.1	6720.0	5422.1	4420.2	3694.4	3230.5	3017.0	2880.4
12.5°	11242.6	10397.3	8490.3	6648.8	4955.3	3435.4	2416.5	1838.7	1551.2	1451.6	1403.2
15°	10869.8	9833.8	7514.1	5299.7	3355.7	1963.9	1320.7	1124.3	1078.7	1078.7	1073.0
17.5°	10516.9	9281.6	6572.0	4033.1	2106.2	1201.1	1004.7	979.1	979.1	990.5	990.5
20°	10178.2	8755.0	5661.2	2894.6	1326.3	953.5	908.0	902.3	908.0	922.2	922.2
22.5°	9887.8	8276.9	4810.1	1986.7	984.8	859.6	836.8	828.3	831.1	839.6	845.3
25°	9671.5	7872.7	4007.5	1346.3	848.2	782.7	757.1	742.9	731.5	731.5	737.2
27.5°	9534.9	7531.2	3230.5	979.1	762.8	711.6	671.7	648.9	623.3	609.1	614.8
30°	9435.3	7206.7	2501.8	799.8	683.1	631.9	580.6	543.6	506.6	489.6	495.2
32.5°	9398.3	6944.8	1870.0	705.9	611.9	555.0	492.4	444.0	404.2	389.9	392.8
35°	9497.9	6737.1	1369.0	637.6	555.0	483.9	412.7	358.6	327.3	318.8	321.6
37.5°	9759.8	6626.0	1024.6	580.6	503.8	424.1	344.4	293.2	273.2	273.2	276.1
40°	10255.0	6623.2	822.6	540.8	458.2	367.2	284.6	247.6	236.2	241.9	244.8
42.5°	10977.9	6774.1	717.3	503.8	418.4	313.1	236.2	210.6	207.8	213.5	216.3
45°	11965.6	7050.1	660.3	472.5	375.7	261.9	199.2	182.2	182.2	190.7	193.5
47.5°	13175.2	7454.3	611.9	441.2	333.0	219.2	170.8	159.4	162.2	170.8	173.6
50°	14632.5	7963.8	563.6	407.0	301.7	182.2	148.0	139.5	142.3	153.7	156.5
52.5°	16291.9	8649.7	523.7	375.7	261.9	150.9	125.2	119.5	125.2	136.6	139.5
55°	17715.0	9264.5	475.3	350.1	210.6	125.2	102.5	102.5	108.2	122.4	125.2
57.5°	19084.0	9907.8	432.6	301.7	165.1	99.6	85.4	88.2	96.8	111.0	113.8
60°	21093.5	10997.9	381.4	253.3	125.2	79.7	71.2	74.0	85.4	99.6	102.5
62.5°	24506.1	12657.2	330.2	210.6	96.8	62.6	56.9	62.6	76.8	93.9	96.8
65°	27585.8	13331.8	270.4	176.5	74.0	48.4	48.4	56.9	74.0	91.1	93.9
67.5°	25869.5	11222.7	210.6	139.5	56.9	37.0	39.8	54.1	71.2	91.1	93.9
69°	22878.1	9176.3	179.3	111.0	48.4	34.2	37.0	54.1	71.2	88.2	91.1
70°	20547.0	7747.5	159.4	93.9	42.7	34.2	37.0	51.2	71.2	88.2	91.1
72.5°	13761.6	4184.0	128.1	68.3	39.8	31.3	31.3	51.2	68.3	85.4	88.2
75°	5914.5	1155.6	102.5	48.4	34.2	28.5	28.5	48.4	65.5	82.5	88.2
77.5°	1081.6	293.2	82.5	42.7	34.2	28.5	25.6	45.5	62.6	79.7	82.5
80°	429.8	145.2	65.5	37.0	31.3	25.6	22.8	42.7	59.8	76.8	79.7
82.5°	259.0	82.5	54.1	34.2	31.3	22.8	19.9	37.0	56.9	74.0	76.8
85°	210.6	56.9	42.7	34.2	28.5	22.8	17.1	34.2	51.2	71.2	74.0
87.5°	102.5	39.8	39.8	31.3	28.5	22.8	17.1	31.3	48.4	68.3	71.2
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)