

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: P191928

Luminaire Tested: **GLEON-AF-10-LED-E1-SL3-7050-800-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191928  
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-SL3-7050-800-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 70 CRI, 5000K, 800mA 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: 40667 lumens  
Efficiency: N/A  
Efficacy: 97.1 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

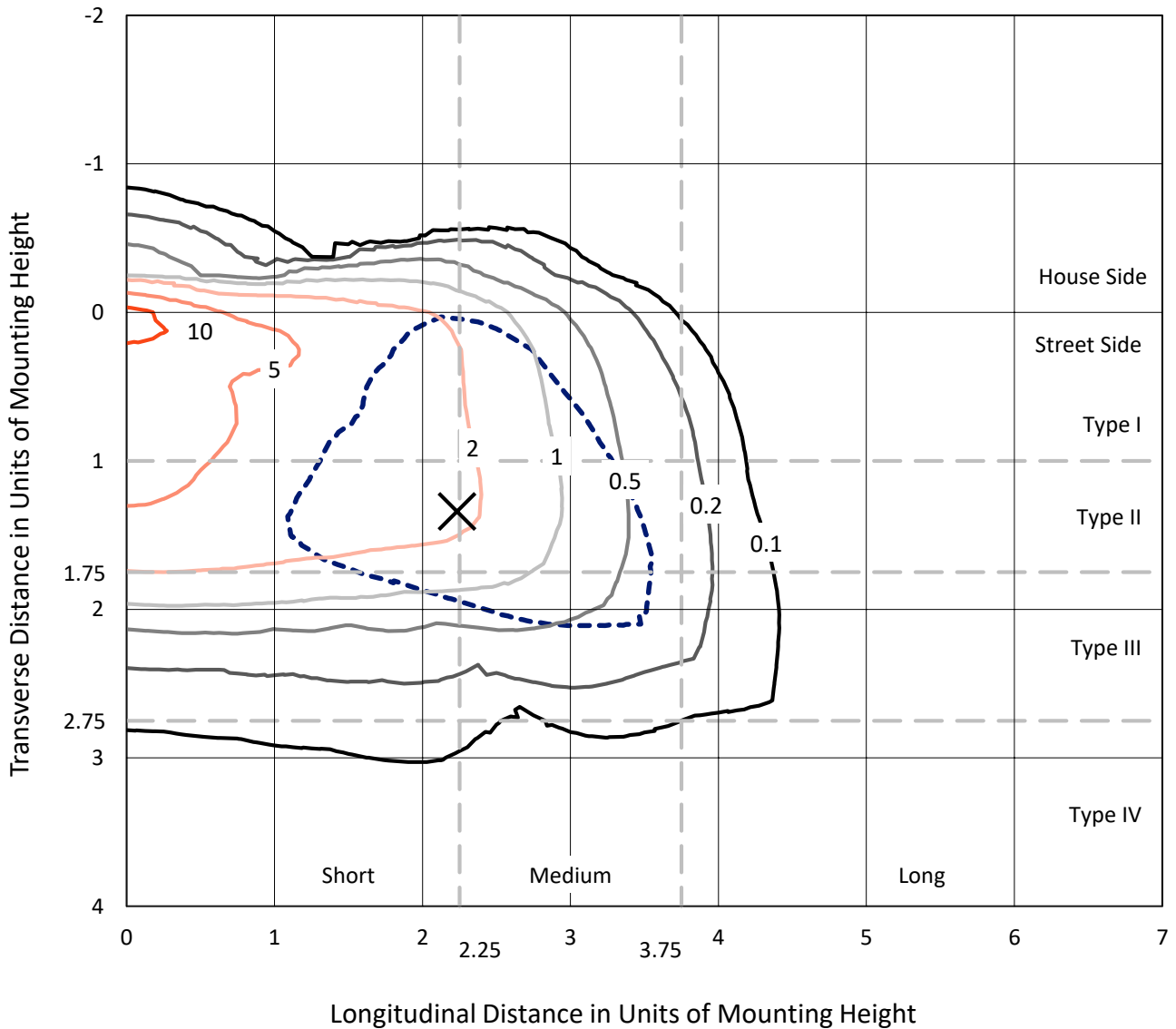
Input Watts (W): 419  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

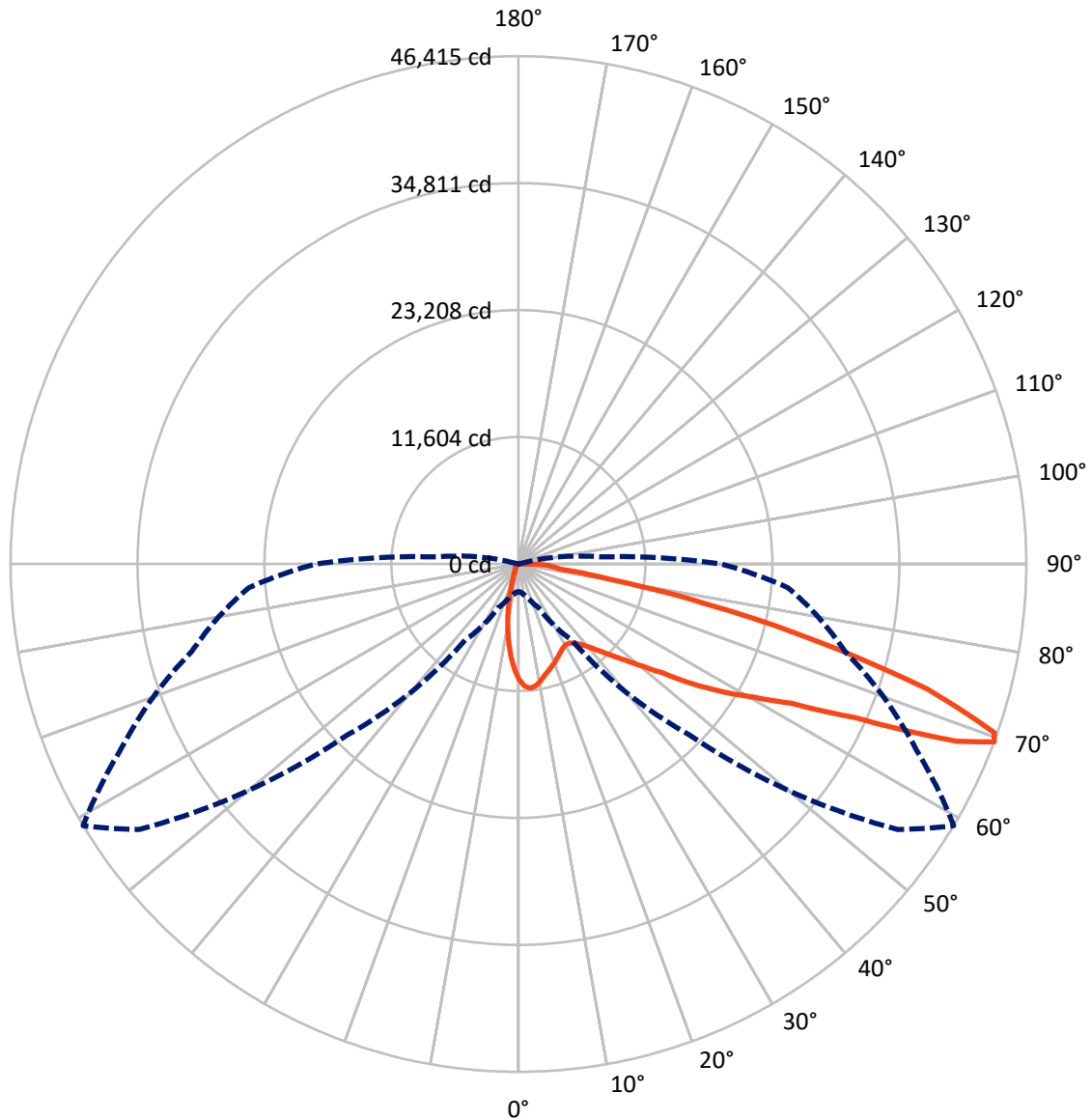


Based on 30 foot mounting height. Maximum calculated value = 11.8 fc  
 Type III - Short - Non-Cutoff

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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	3311.8	0.0	3311.8
	% Fixture	8.1	0.0	8.1
<b>Street Side</b>	Lumens	37355.2	0.0	37355.2
	% Fixture	91.9	0.0	91.9
<b>Total</b>	Lumens	40667.0	0.0	40667.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	859.2	2.1
10°-20°	1775.3	4.4
20°-30°	2388.9	5.9
30°-40°	3468.6	8.5
40°-50°	5775.5	14.2
50°-60°	9009.6	22.2
60°-70°	11148.7	27.4
70°-80°	5650.0	13.9
80°-90°	591.2	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°	40667.0	100.0
0°-180°	40667.0	100.0

**Coefficient of Utilization**



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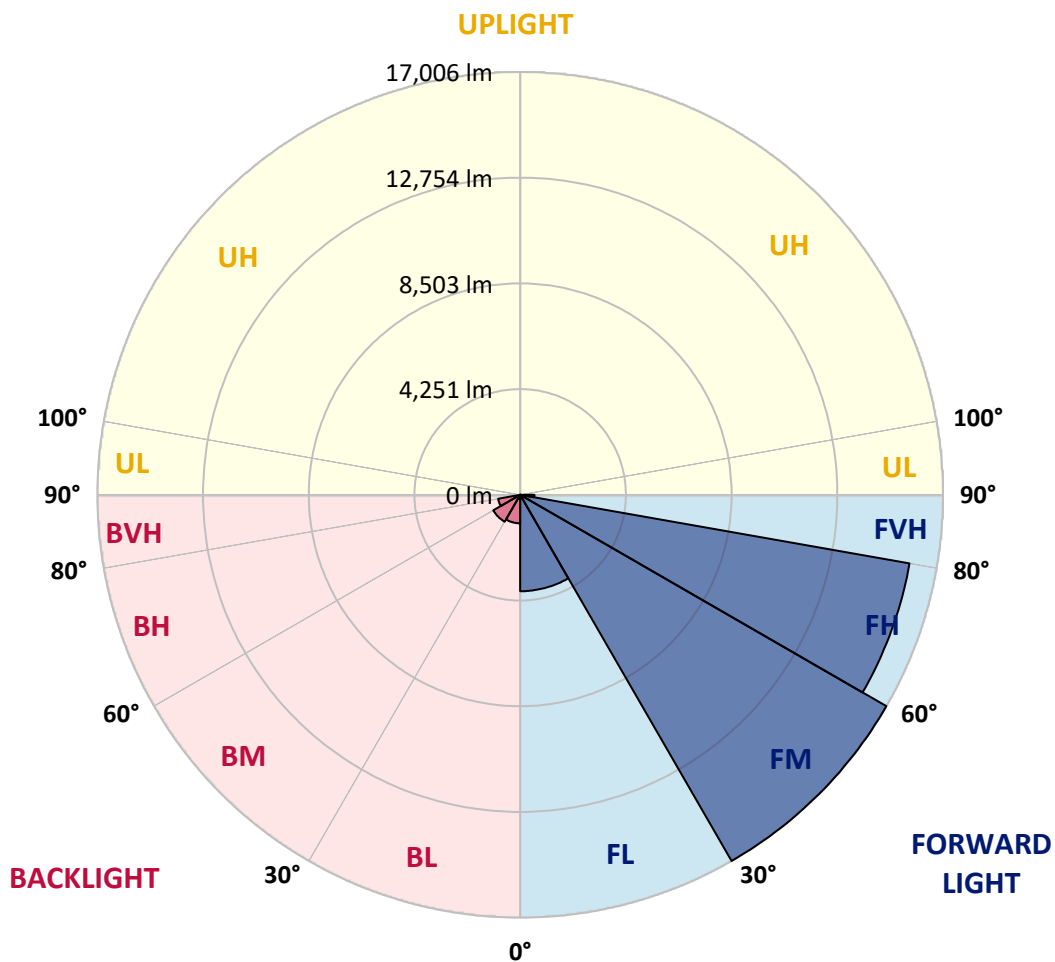
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3877.1	9.5			
FM	(30°-60°)	17005.7	41.8			
FH	(60°-80°)	15899.3	39.1			G5
FVH	(80°-90°)	573.0	1.4			G4/750
BL	(0°-30°)	1146.3	2.8	B3/2500		
BM	(30°-60°)	1247.9	3.1	B2/2500		
BH	(60°-80°)	899.4	2.2	B2/1000		G2/1000
BVH	(80°-90°)	18.2	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°	10585.1	10585.1	10585.1	10585.1	10585.1	10585.1	10585.1	10585.1	10585.1	10585.1	10585.1
2.5°	11601.5	11596.9	11546.3	11523.3	11481.9	11394.5	11258.8	11187.6	11072.6	10872.5	10603.5
5°	11495.7	11550.9	11580.8	11583.1	11613.0	11580.8	11458.9	11399.1	11240.4	10918.5	10435.6
7.5°	10778.2	10798.9	10884.0	10957.6	11100.2	11235.8	11279.5	11254.2	11160.0	10815.0	10173.4
10°	10010.2	10030.9	10132.0	10228.6	10421.8	10631.0	10851.8	10897.8	10936.9	10667.8	9920.5
12.5°	9347.9	9368.6	9472.1	9598.5	9823.9	10081.4	10424.1	10500.0	10672.4	10527.6	9718.1
15°	8777.6	8786.8	8888.0	9044.3	9313.4	9644.5	10033.2	10155.0	10419.5	10428.7	9541.0
17.5°	8292.4	8315.4	8377.4	8526.9	8821.3	9230.6	9683.6	9858.4	10168.8	10345.9	9368.6
20°	7995.7	8018.7	8016.4	8099.2	8363.6	8800.6	9334.1	9543.3	9920.5	10260.8	9214.5
22.5°	7938.2	7938.2	7878.4	7866.9	8023.3	8388.9	8970.7	9226.0	9697.4	10224.0	9106.4
25°	8142.9	8133.7	7984.2	7862.3	7869.2	8087.7	8618.9	8922.4	9508.8	10249.3	9048.9
27.5°	8575.2	8563.7	8375.1	8142.9	7956.6	7954.3	8352.1	8678.7	9359.4	10368.9	9071.9
30°	9173.1	9168.5	8963.8	8671.8	8333.7	8023.3	8260.2	8556.8	9262.8	10585.1	9124.8
32.5°	9826.2	9819.3	9665.2	9357.1	8929.3	8333.7	8356.7	8605.1	9290.4	10872.5	9253.6
35°	10518.4	10506.9	10440.2	10171.1	9699.7	8906.4	8674.1	8867.3	9465.2	11302.5	9506.5
37.5°	11268.0	11279.5	11327.8	11070.3	10575.9	9708.9	9205.3	9336.4	9817.0	11886.6	9918.2
40°	12374.1	12371.8	12387.9	12049.9	11573.9	10690.8	9948.1	9989.5	10405.7	12661.6	10543.7
42.5°	14381.7	14241.4	13816.0	13126.1	12647.8	11813.0	10884.0	10840.3	11125.5	13620.5	11419.8
45°	17079.1	16780.2	15676.4	14354.1	13742.4	13077.8	12036.1	11895.8	12077.5	14772.6	12500.6
47.5°	19399.4	19089.0	17527.5	15632.7	14903.7	14278.2	13386.0	13133.0	13192.8	16062.7	13871.2
50°	20188.2	20036.4	18672.8	16745.7	16028.2	15789.1	14952.0	14643.9	14558.8	17555.1	15460.2
52.5°	19914.5	19903.0	18994.7	17467.8	17058.4	17352.8	16922.8	16566.3	16253.6	19128.1	17076.8
55°	19475.3	19532.8	19125.8	18100.2	18086.4	18780.8	19617.9	19321.2	18415.2	20836.7	18470.4
57.5°	18263.4	18509.5	19052.2	19295.9	19861.6	20572.2	21862.3	22037.1	20965.5	22145.1	19627.1
60°	14818.6	15359.0	17134.3	19468.4	22149.7	23920.4	24571.2	24720.7	23058.1	23232.9	21188.5
62.5°	10518.4	11070.3	13321.6	17270.0	22184.2	28319.6	28607.0	28020.6	25362.3	24844.9	23881.3
65°	5583.4	6008.9	7848.5	12466.1	19233.9	29340.6	35664.5	33916.8	29428.0	28016.0	27360.6
67.5°	2856.1	2984.9	3716.2	6100.8	13222.7	26061.4	41990.7	43221.0	36434.9	31161.9	27192.8
69°	2527.3	2603.1	3088.4	4410.6	8467.1	22073.9	42298.8	46415.1	40102.7	30899.7	24711.5
70°	2446.8	2513.5	2955.0	3992.1	6618.2	18511.8	41119.1	46134.6	41041.0	29901.7	22858.0
72.5°	2076.5	2134.0	2630.7	3527.6	5378.8	9189.2	33401.7	39093.2	36828.1	24909.3	16545.6
75°	1389.0	1577.5	2525.0	3306.8	5003.9	5220.1	22021.0	28250.6	26243.0	16800.9	8618.9
77.5°	333.4	358.7	712.9	2630.7	4576.2	4594.6	11325.5	17562.0	14324.2	5988.2	2037.4
80°	179.4	172.5	200.1	522.0	4261.2	4311.7	5098.2	8524.6	5114.3	993.4	671.5
82.5°	126.5	119.6	128.8	218.5	1340.7	3927.7	3688.6	3858.7	2120.2	381.7	301.2
85°	46.0	43.7	71.3	197.8	420.8	2258.2	3789.7	3182.6	1717.8	174.8	220.8
87.5°	16.1	13.8	27.6	108.1	128.8	961.2	2338.7	2405.4	676.1	105.8	103.5
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°	10585.1	10585.1	10585.1	10585.1	10585.1	10585.1	10585.1	10585.1	10585.1	10585.1	10585.1
2.5°	10490.8	10348.2	10086.0	9817.0	9568.6	9269.7	9120.2	8973.0	8910.9	8888.0	8779.9
5°	10187.2	9945.8	9389.3	8830.5	8315.4	7768.0	7407.0	7117.3	6947.1	6864.3	6733.2
7.5°	9798.6	9403.1	8559.1	7696.8	6894.2	6103.1	5516.7	5066.0	4755.6	4606.1	4470.4
10°	9421.5	8894.9	7694.5	6519.4	5429.4	4380.7	3571.3	2984.9	2610.0	2437.6	2327.2
12.5°	9083.4	8400.4	6859.7	5371.9	4003.6	2775.6	1952.4	1485.5	1253.3	1172.8	1133.7
15°	8782.2	7945.1	6070.9	4281.9	2711.2	1586.7	1067.0	908.3	871.5	871.5	866.9
17.5°	8497.0	7499.0	5309.8	3258.5	1701.7	970.4	811.8	791.1	791.1	800.3	800.3
20°	8223.4	7073.6	4573.9	2338.7	1071.6	770.4	733.6	729.0	733.6	745.1	745.1
22.5°	7988.8	6687.2	3886.3	1605.1	795.7	694.5	676.1	669.2	671.5	678.4	683.0
25°	7814.0	6360.7	3237.8	1087.7	685.3	632.4	611.7	600.2	591.0	591.0	595.6
27.5°	7703.7	6084.7	2610.0	791.1	616.3	574.9	542.7	524.3	503.6	492.1	496.7
30°	7623.2	5822.6	2021.3	646.2	551.9	510.5	469.1	439.2	409.3	395.5	400.1
32.5°	7593.3	5611.0	1510.8	570.3	494.4	448.4	397.8	358.7	326.5	315.0	317.3
35°	7673.8	5443.2	1106.1	515.1	448.4	390.9	333.4	289.7	264.5	257.6	259.9
37.5°	7885.3	5353.5	827.9	469.1	407.0	342.6	278.3	236.9	220.8	220.8	223.1
40°	8285.5	5351.2	664.6	436.9	370.2	296.6	230.0	200.1	190.9	195.5	197.8
42.5°	8869.6	5473.0	579.5	407.0	338.0	253.0	190.9	170.2	167.9	172.5	174.8
45°	9667.5	5696.1	533.5	381.7	303.5	211.6	161.0	147.2	147.2	154.1	156.4
47.5°	10644.8	6022.7	494.4	356.4	269.1	177.1	138.0	128.8	131.1	138.0	140.3
50°	11822.2	6434.3	455.3	328.8	243.8	147.2	119.6	112.7	115.0	124.2	126.5
52.5°	13162.9	6988.5	423.1	303.5	211.6	121.9	101.2	96.6	101.2	110.4	112.7
55°	14312.7	7485.2	384.0	282.9	170.2	101.2	82.8	82.8	87.4	98.9	101.2
57.5°	15418.8	8004.9	349.5	243.8	133.4	80.5	69.0	71.3	78.2	89.7	92.0
60°	17042.3	8885.7	308.1	204.7	101.2	64.4	57.5	59.8	69.0	80.5	82.8
62.5°	19799.6	10226.3	266.8	170.2	78.2	50.6	46.0	50.6	62.1	75.9	78.2
65°	22287.7	10771.3	218.5	142.6	59.8	39.1	39.1	46.0	59.8	73.6	75.9
67.5°	20901.1	9067.3	170.2	112.7	46.0	29.9	32.2	43.7	57.5	73.6	75.9
69°	18484.2	7413.9	144.9	89.7	39.1	27.6	29.9	43.7	57.5	71.3	73.6
70°	16600.8	6259.5	128.8	75.9	34.5	27.6	29.9	41.4	57.5	71.3	73.6
72.5°	11118.6	3380.4	103.5	55.2	32.2	25.3	25.3	41.4	55.2	69.0	71.3
75°	4778.6	933.6	82.8	39.1	27.6	23.0	23.0	39.1	52.9	66.7	71.3
77.5°	873.8	236.9	66.7	34.5	27.6	23.0	20.7	36.8	50.6	64.4	66.7
80°	347.2	117.3	52.9	29.9	25.3	20.7	18.4	34.5	48.3	62.1	64.4
82.5°	209.3	66.7	43.7	27.6	25.3	18.4	16.1	29.9	46.0	59.8	62.1
85°	170.2	46.0	34.5	27.6	23.0	18.4	13.8	27.6	41.4	57.5	59.8
87.5°	82.8	32.2	32.2	25.3	23.0	18.4	13.8	25.3	39.1	55.2	57.5
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)