

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: P191937

Luminaire Tested: **GLEON-AF-09-LED-E1-SL3-7050-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191937
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-09-LED-E1-SL3-7050-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 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: 45462 lumens
Efficiency: N/A
Efficacy: 90.7 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): 501
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

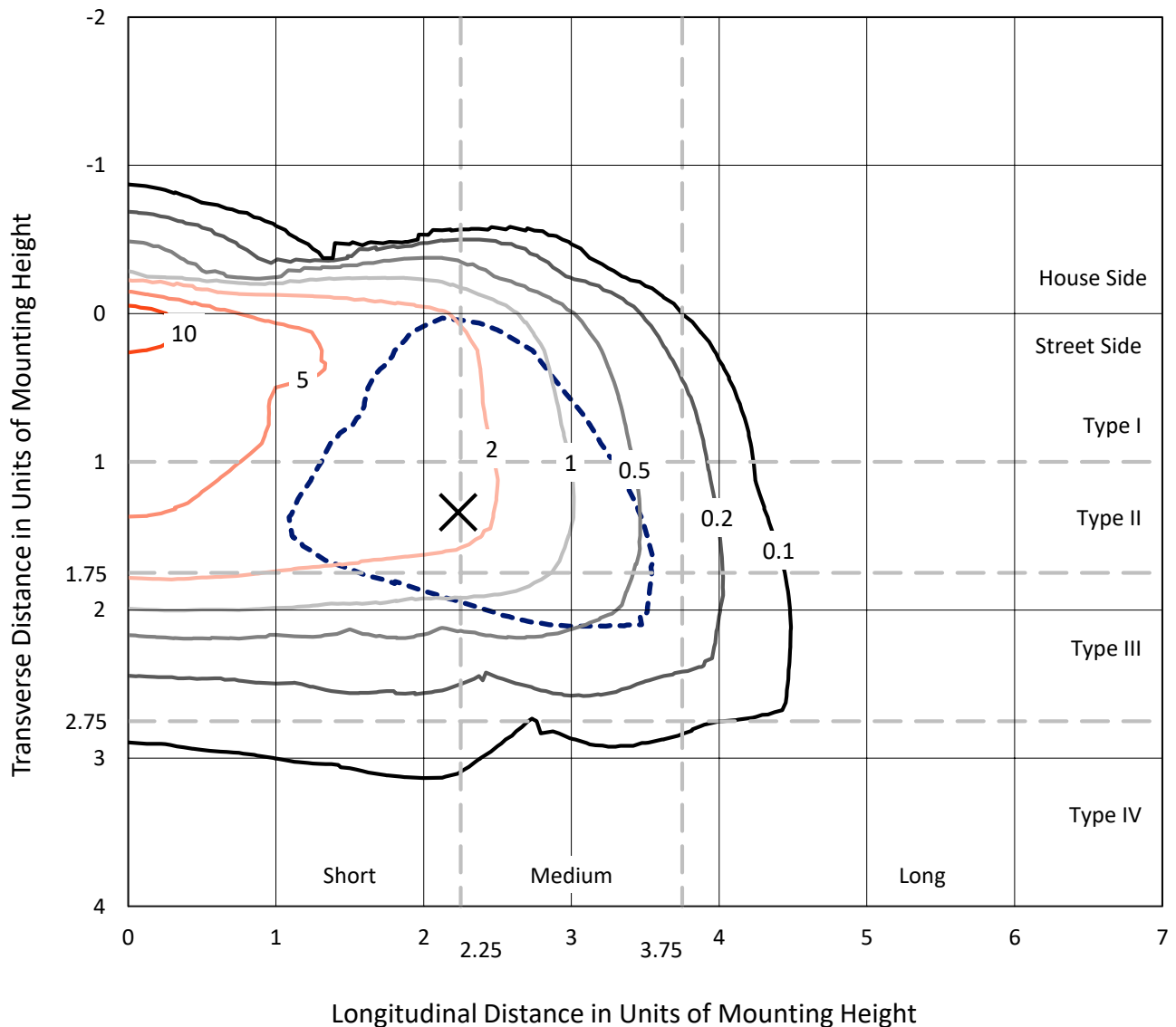


REPORT NUMBER: P191937

CATALOG NUMBER: GLEON-AF-09-LED-E1-SL3-7050-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

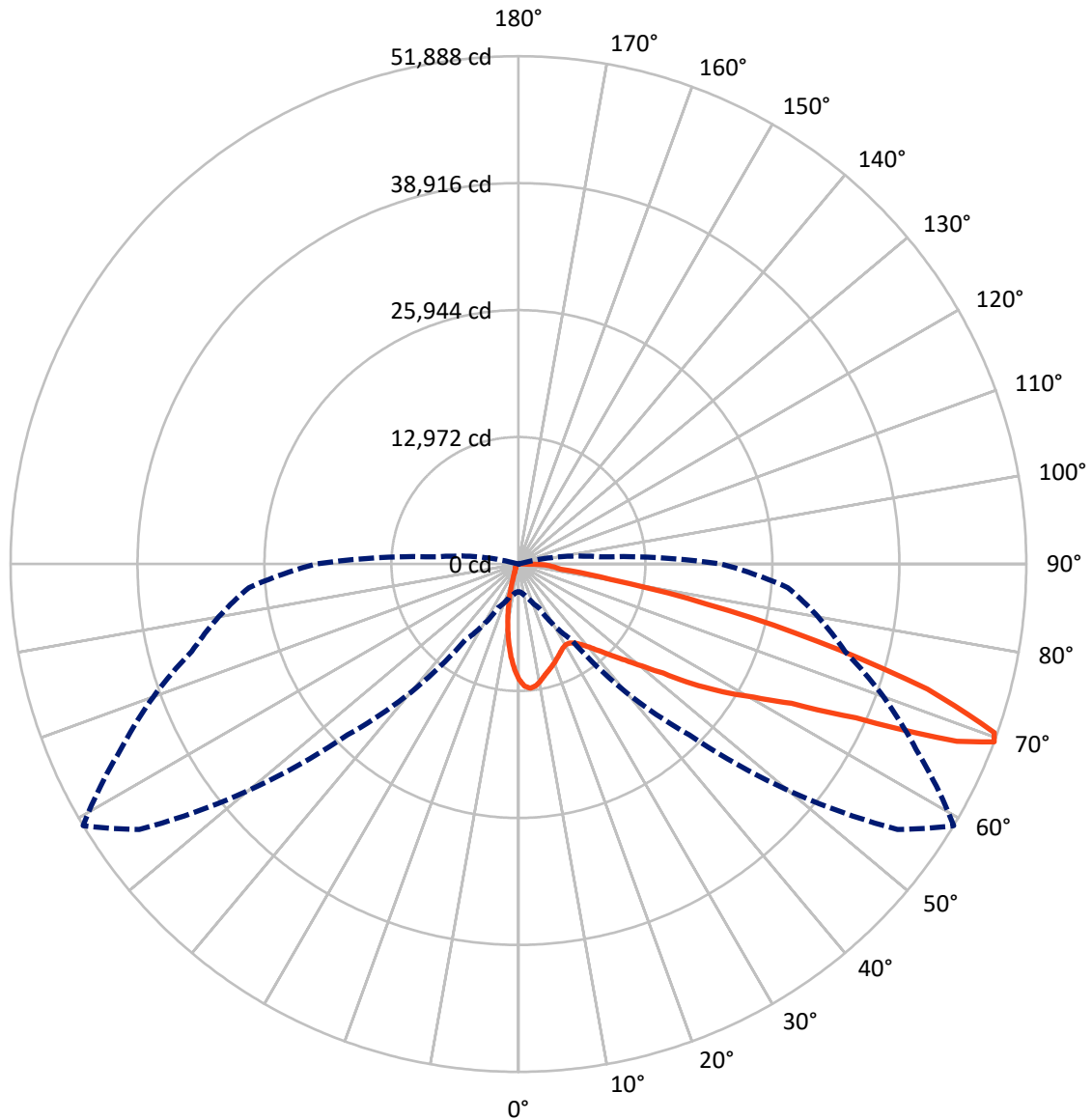


Based on 30 foot mounting height. Maximum calculated value = 13.2 fc
 Type III - Short - Non-Cutoff

REPORT NUMBER: P191937

CATALOG NUMBER: GLEON-AF-09-LED-E1-SL3-7050-HSS

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	3702.3	0.0	3702.3
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	41759.7	0.0	41759.7
	% Fixture	91.9	0.0	91.9
Total	Lumens	45462.0	0.0	45462.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	960.5	2.1
10°-20°	1984.6	4.4
20°-30°	2670.6	5.9
30°-40°	3877.6	8.5
40°-50°	6456.4	14.2
50°-60°	10071.9	22.2
60°-70°	12463.2	27.4
70°-80°	6316.2	13.9
80°-90°	660.9	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°	45462.0	100.0
0°-180°	45462.0	100.0



REPORT NUMBER: P191937

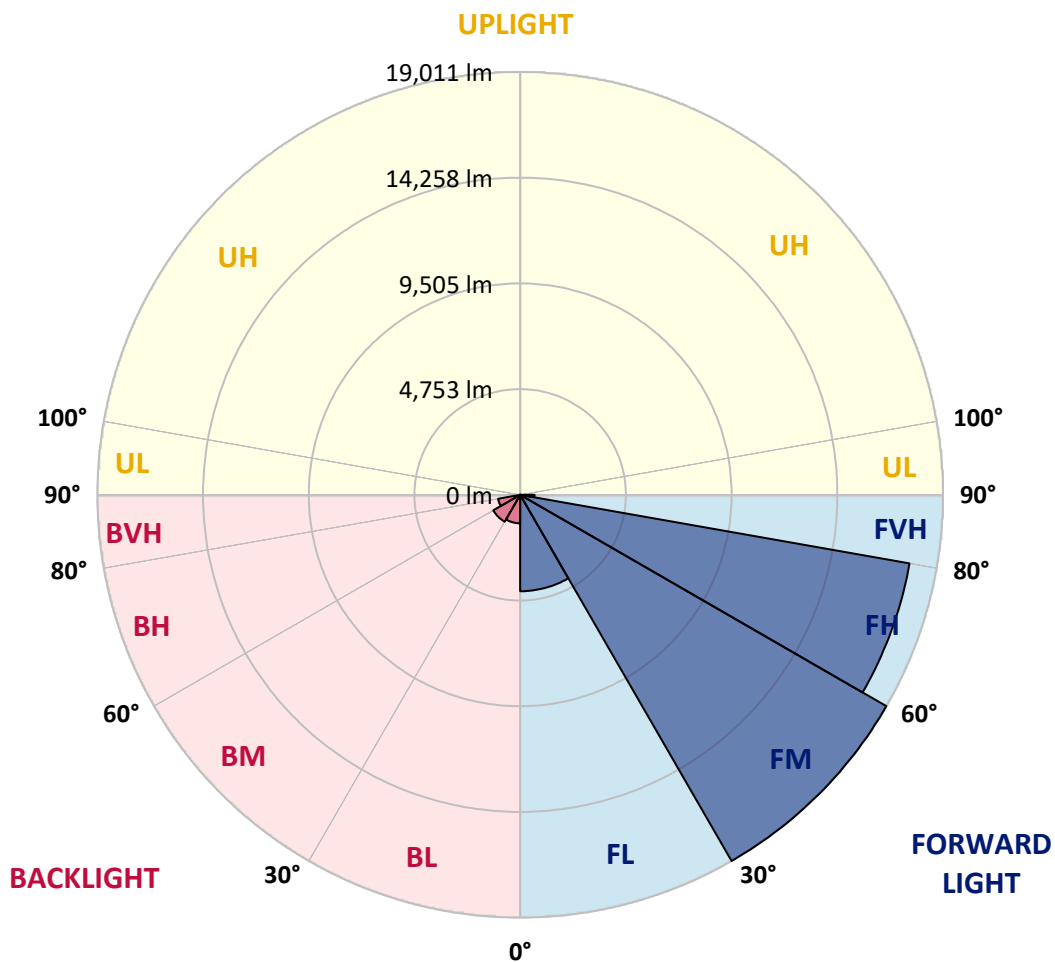
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4334.3	9.5			
FM	(30°-60°)	19010.9	41.8			
FH	(60°-80°)	17774.0	39.1			G5
FVH	(80°-90°)	640.6	1.4			G4/750
BL	(0°-30°)	1281.5	2.8	B3/2500		
BM	(30°-60°)	1395.0	3.1	B2/2500		
BH	(60°-80°)	1005.4	2.2	B3/2500		G3/2500
BVH	(80°-90°)	20.3	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





REPORT NUMBER: P191937

CATALOG NUMBER: GLEON-AF-09-LED-E1-SL3-7050-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	11833.1	11833.1	11833.1	11833.1	11833.1	11833.1	11833.1	11833.1	11833.1	11833.1	11833.1
2.5°	12969.4	12964.3	12907.7	12882.0	12835.7	12738.0	12586.4	12506.7	12378.1	12154.5	11853.7
5°	12851.1	12912.8	12946.3	12948.8	12982.3	12946.3	12810.0	12743.2	12565.8	12205.9	11666.0
7.5°	12049.1	12072.2	12167.3	12249.6	12409.0	12560.7	12609.5	12581.2	12475.8	12090.2	11373.0
10°	11190.4	11213.6	11326.7	11434.7	11650.6	11884.5	12131.3	12182.8	12226.5	11925.7	11090.2
12.5°	10450.1	10473.2	10588.9	10730.3	10982.2	11270.1	11653.2	11738.0	11930.8	11768.9	10864.0
15°	9812.5	9822.8	9935.9	10110.7	10411.5	10781.7	11216.2	11352.4	11648.0	11658.3	10666.0
17.5°	9270.1	9295.8	9365.2	9532.3	9861.4	10319.0	10825.4	11020.8	11367.8	11565.8	10473.2
20°	8938.5	8964.2	8961.6	9054.2	9349.8	9838.2	10434.6	10668.6	11090.2	11470.7	10301.0
22.5°	8874.2	8874.2	8807.4	8794.5	8969.3	9378.1	10028.5	10313.8	10840.8	11429.5	10180.1
25°	9103.0	9092.7	8925.6	8789.4	8797.1	9041.3	9635.1	9974.5	10630.0	11457.8	10115.9
27.5°	9586.3	9573.4	9362.6	9103.0	8894.8	8892.2	9336.9	9702.0	10462.9	11591.5	10141.6
30°	10254.7	10249.6	10020.8	9694.3	9316.4	8969.3	9234.1	9565.7	10355.0	11833.1	10200.7
32.5°	10984.8	10977.1	10804.8	10460.4	9982.2	9316.4	9342.1	9619.7	10385.8	12154.5	10344.7
35°	11758.6	11745.7	11671.2	11370.4	10843.4	9956.5	9696.8	9912.8	10581.2	12635.2	10627.5
37.5°	12596.6	12609.5	12663.5	12375.6	11822.8	10853.7	10290.7	10437.2	10974.5	13288.2	11087.6
40°	13833.2	13830.6	13848.6	13470.7	12938.5	11951.4	11121.0	11167.3	11632.6	14154.5	11786.9
42.5°	16077.4	15920.6	15445.0	14673.8	14139.1	13205.9	12167.3	12118.5	12437.3	15226.5	12766.3
45°	19092.9	18758.7	17524.8	16046.6	15362.8	14619.8	13455.3	13298.5	13501.5	16514.5	13974.6
47.5°	21686.8	21339.7	19594.2	17475.9	16661.0	15961.7	14964.3	14681.5	14748.4	17956.6	15506.7
50°	22568.6	22398.9	20874.4	18720.2	17918.1	17650.7	16715.0	16370.5	16275.4	19625.1	17283.1
52.5°	22262.6	22249.8	21234.3	19527.4	19069.8	19398.8	18918.1	18519.6	18170.0	21383.4	19090.3
55°	21771.6	21835.9	21380.9	20234.3	20218.9	20995.3	21931.0	21599.4	20586.5	23293.5	20648.2
57.5°	20416.8	20691.9	21298.6	21571.1	22203.5	22997.9	24440.1	24635.4	23437.5	24756.3	21941.3
60°	16565.9	17170.0	19154.6	21763.9	24761.4	26740.9	27468.4	27635.5	25776.8	25972.2	23686.8
62.5°	11758.6	12375.6	14892.3	19306.3	24800.0	31658.7	31980.0	31324.5	28352.7	27774.3	26697.2
65°	6241.8	6717.4	8773.9	13936.0	21501.7	32800.1	39869.7	37915.9	32897.8	31319.4	30586.7
67.5°	3192.9	3336.8	4154.3	6820.2	14781.8	29134.2	46941.8	48317.1	40730.9	34836.1	30399.0
69°	2825.2	2910.1	3452.5	4930.7	9465.5	24676.6	47286.2	51887.9	44831.2	34543.1	27625.2
70°	2735.3	2809.8	3303.4	4462.8	7398.6	20694.5	45967.5	51574.2	45880.1	33427.4	25553.2
72.5°	2321.4	2385.6	2940.9	3943.5	6013.0	10272.7	37340.0	43702.6	41170.4	27846.3	18496.5
75°	1552.7	1763.5	2822.7	3696.7	5593.9	5835.6	24617.4	31581.6	29337.3	18781.8	9635.1
77.5°	372.8	401.0	796.9	2940.9	5115.8	5136.3	12660.9	19632.8	16013.2	6694.2	2277.7
80°	200.5	192.8	223.7	583.6	4763.6	4820.1	5699.3	9529.7	5717.3	1110.6	750.7
82.5°	141.4	133.7	144.0	244.2	1498.7	4390.8	4123.5	4313.7	2370.2	426.7	336.8
85°	51.4	48.8	79.7	221.1	470.4	2524.5	4236.6	3557.9	1920.3	195.4	246.8
87.5°	18.0	15.4	30.8	120.8	144.0	1074.6	2614.4	2689.0	755.8	118.3	115.7
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°	11833.1	11833.1	11833.1	11833.1	11833.1	11833.1	11833.1	11833.1	11833.1	11833.1	11833.1
2.5°	11727.7	11568.3	11275.3	10974.5	10696.9	10362.7	10195.6	10031.0	9961.6	9935.9	9815.1
5°	11388.4	11118.5	10496.3	9871.7	9295.8	8684.0	8280.4	7956.4	7766.2	7673.7	7527.1
7.5°	10953.9	10511.8	9568.3	8604.3	7707.1	6822.8	6167.2	5663.3	5316.3	5149.2	4997.5
10°	10532.3	9943.6	8601.7	7288.1	6069.5	4897.3	3992.4	3336.8	2917.8	2725.0	2601.6
12.5°	10154.4	9390.9	7668.5	6005.3	4475.7	3102.9	2182.6	1660.7	1401.1	1311.1	1267.4
15°	9817.7	8881.9	6786.8	4786.7	3030.9	1773.8	1192.8	1015.4	974.3	974.3	969.2
17.5°	9498.9	8383.2	5935.8	3642.7	1902.3	1084.9	907.5	884.3	884.3	894.6	894.6
20°	9193.0	7907.6	5113.2	2614.4	1198.0	861.2	820.1	814.9	820.1	832.9	832.9
22.5°	8930.8	7475.7	4344.6	1794.4	889.5	776.4	755.8	748.1	750.7	758.4	763.5
25°	8735.4	7110.7	3619.6	1216.0	766.1	707.0	683.8	671.0	660.7	660.7	665.8
27.5°	8612.0	6802.2	2917.8	884.3	689.0	642.7	606.7	586.1	563.0	550.1	555.3
30°	8522.0	6509.1	2259.7	722.4	617.0	570.7	524.4	491.0	457.6	442.2	447.3
32.5°	8488.6	6272.6	1689.0	637.5	552.7	501.3	444.7	401.0	365.0	352.2	354.8
35°	8578.6	6084.9	1236.5	575.8	501.3	437.0	372.8	323.9	295.6	287.9	290.5
37.5°	8815.1	5984.7	925.5	524.4	455.0	383.0	311.1	264.8	246.8	246.8	249.4
40°	9262.4	5982.1	742.9	488.4	413.9	331.6	257.1	223.7	213.4	218.5	221.1
42.5°	9915.4	6118.4	647.8	455.0	377.9	282.8	213.4	190.2	187.7	192.8	195.4
45°	10807.4	6367.7	596.4	426.7	339.3	236.5	180.0	164.5	164.5	172.2	174.8
47.5°	11900.0	6732.8	552.7	398.5	300.8	197.9	154.2	144.0	146.5	154.2	156.8
50°	13216.2	7192.9	509.0	367.6	272.5	164.5	133.7	126.0	128.5	138.8	141.4
52.5°	14714.9	7812.5	473.0	339.3	236.5	136.2	113.1	108.0	113.1	123.4	126.0
55°	16000.3	8367.8	429.3	316.2	190.2	113.1	92.5	92.5	97.7	110.5	113.1
57.5°	17236.8	8948.8	390.8	272.5	149.1	90.0	77.1	79.7	87.4	100.3	102.8
60°	19051.8	9933.4	344.5	228.8	113.1	72.0	64.3	66.8	77.1	90.0	92.5
62.5°	22134.1	11432.1	298.2	190.2	87.4	56.6	51.4	56.6	69.4	84.8	87.4
65°	24915.6	12041.4	244.2	159.4	66.8	43.7	43.7	51.4	66.8	82.3	84.8
67.5°	23365.5	10136.4	190.2	126.0	51.4	33.4	36.0	48.8	64.3	82.3	84.8
69°	20663.6	8288.1	162.0	100.3	43.7	30.8	33.4	48.8	64.3	79.7	82.3
70°	18558.2	6997.6	144.0	84.8	38.6	30.8	33.4	46.3	64.3	79.7	82.3
72.5°	12429.5	3779.0	115.7	61.7	36.0	28.3	28.3	46.3	61.7	77.1	79.7
75°	5342.0	1043.7	92.5	43.7	30.8	25.7	25.7	43.7	59.1	74.6	79.7
77.5°	976.9	264.8	74.6	38.6	30.8	25.7	23.1	41.1	56.6	72.0	74.6
80°	388.2	131.1	59.1	33.4	28.3	23.1	20.6	38.6	54.0	69.4	72.0
82.5°	233.9	74.6	48.8	30.8	28.3	20.6	18.0	33.4	51.4	66.8	69.4
85°	190.2	51.4	38.6	30.8	25.7	20.6	15.4	30.8	46.3	64.3	66.8
87.5°	92.5	36.0	36.0	28.3	25.7	20.6	15.4	28.3	43.7	61.7	64.3
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)