

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: STREETWORKS

Report Number: P192888

Luminaire Tested: **GAN-AF-10-LED-U-SL3-7030-1200-HSS-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192888
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: STREETWORKS
Catalog Number: GAN-AF-10-LED-U-SL3-7030-1200-HSS-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3000K, 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: 53401.6 lumens
Efficiency: N/A
Efficacy: 83.4 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 (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: 28.75 FT

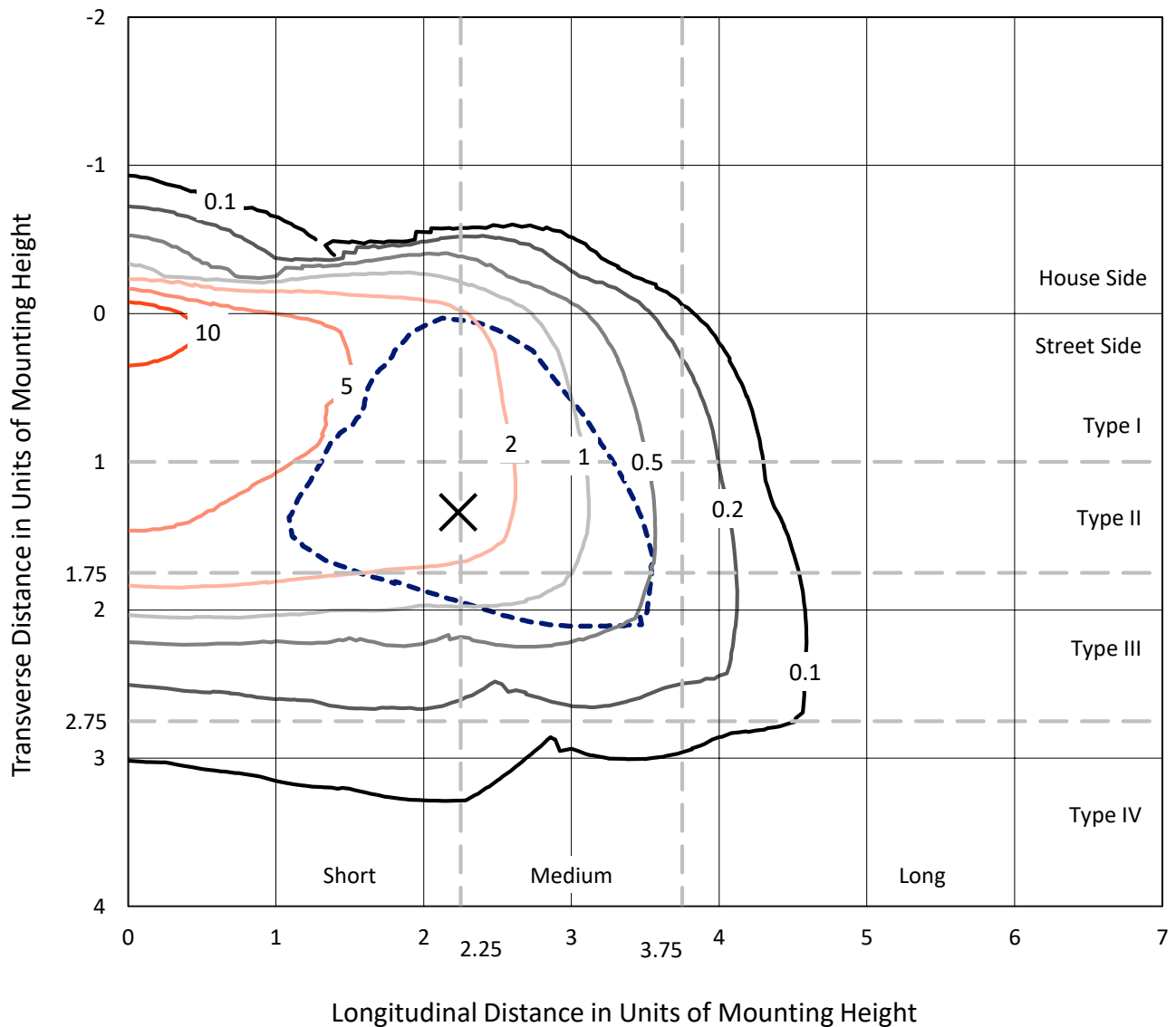


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

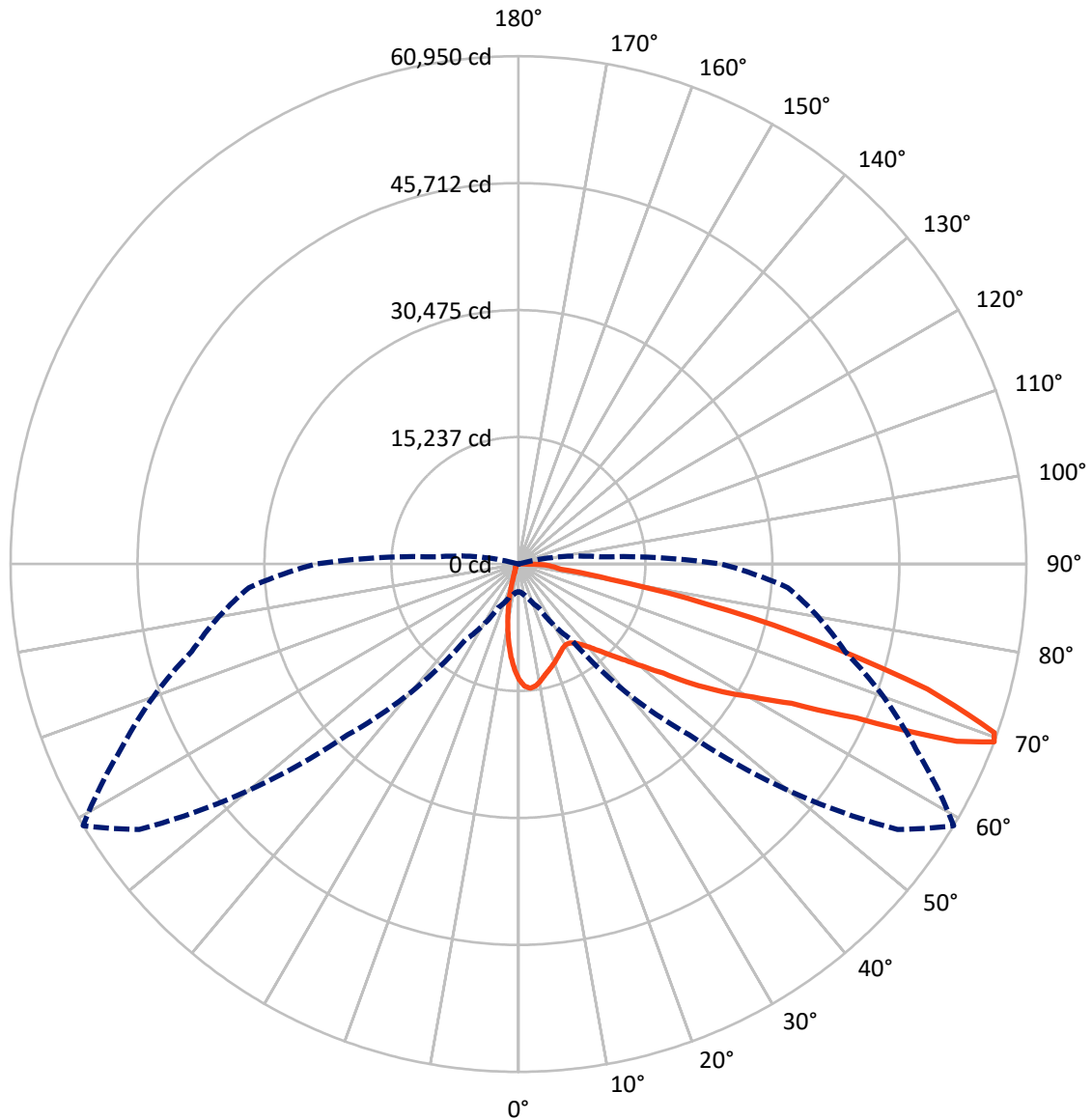


Based on 30 foot mounting height. Maximum calculated value = 15.5 fc
 Type III - Short - Non-Cutoff

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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	4348.9	0.0	4348.9
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	49052.7	0.0	49052.7
	% Fixture	91.9	0.0	91.9
Total	Lumens	53401.6	0.0	53401.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1128.2	2.1
10°-20°	2331.3	4.4
20°-30°	3137.0	5.9
30°-40°	4554.7	8.5
40°-50°	7584.0	14.2
50°-60°	11830.9	22.2
60°-70°	14639.8	27.4
70°-80°	7419.3	13.9
80°-90°	776.3	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°	53401.6	100.0
0°-180°	53401.6	100.0

Coefficient of Utilization



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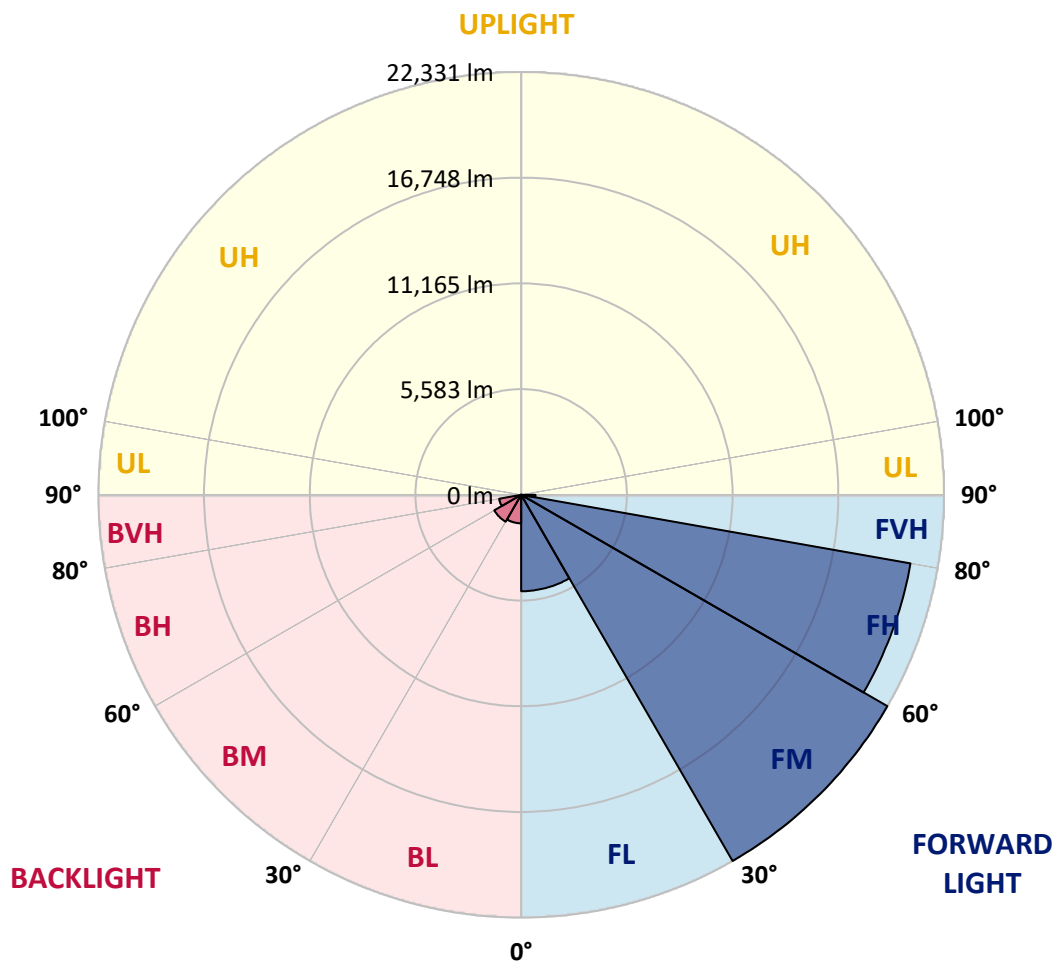
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5091.2	9.5			
FM (30°-60°)	22331.0	41.8			
FH (60°-80°)	20878.1	39.1			G5
FVH (80°-90°)	752.4	1.4			G5
BL (0°-30°)	1505.3	2.8	B3/2500		
BM (30°-60°)	1638.6	3.1	B2/2500		
BH (60°-80°)	1181.0	2.2	B3/2500		G3/2500
BVH (80°-90°)	23.9	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°	13899.6	13899.6	13899.6	13899.6	13899.6	13899.6	13899.6	13899.6	13899.6	13899.6	13899.6
2.5°	15234.3	15228.3	15161.9	15131.8	15077.3	14962.6	14784.4	14690.9	14539.9	14277.1	13923.9
5°	15095.5	15167.9	15207.2	15210.2	15249.6	15207.2	15047.1	14968.6	14760.3	14337.5	13703.4
7.5°	14153.3	14180.5	14292.2	14388.9	14576.1	14754.3	14811.6	14778.4	14654.6	14201.6	13359.1
10°	13144.8	13172.0	13304.8	13431.7	13685.3	13960.0	14249.9	14310.3	14361.7	14008.3	13027.0
12.5°	12275.1	12302.3	12438.2	12604.2	12900.1	13238.4	13688.3	13788.0	14014.4	13824.2	12761.3
15°	11526.2	11538.4	11671.2	11876.5	12229.8	12664.7	13174.9	13335.0	13682.3	13694.3	12528.8
17.5°	10889.0	10919.3	11000.8	11197.1	11583.5	12121.1	12715.9	12945.5	13353.1	13585.7	12302.3
20°	10499.5	10529.8	10526.7	10635.4	10982.6	11556.4	12256.9	12531.7	13027.0	13474.0	12099.9
22.5°	10424.0	10424.0	10345.5	10330.4	10535.8	11015.8	11779.9	12115.0	12734.0	13425.6	11958.0
25°	10692.7	10680.6	10484.4	10324.4	10333.4	10620.3	11317.8	11716.4	12486.4	13458.8	11882.5
27.5°	11260.5	11245.4	10997.7	10692.7	10448.1	10445.1	10967.6	11396.4	12290.1	13615.9	11912.7
30°	12045.7	12039.5	11770.8	11387.3	10943.4	10535.8	10846.8	11236.3	12163.4	13899.6	11982.1
32.5°	12903.2	12894.1	12691.8	12287.2	11725.4	10943.4	10973.6	11299.7	12199.6	14277.1	12151.3
35°	13812.1	13797.0	13709.5	13356.2	12737.1	11695.3	11390.3	11644.0	12429.2	14841.9	12483.4
37.5°	14796.6	14811.6	14875.1	14536.8	13887.6	12749.1	12087.9	12260.0	12891.1	15608.9	13023.9
40°	16249.0	16246.0	16267.2	15823.3	15198.2	14038.6	13063.2	13117.5	13664.2	16626.5	13845.4
42.5°	18885.3	18701.1	18142.4	17236.4	16608.4	15512.2	14292.2	14234.9	14609.3	17885.7	14995.9
45°	22427.3	22034.8	20585.3	18849.0	18045.7	17173.1	15805.1	15620.9	15859.4	19398.6	16415.1
47.5°	25474.3	25066.6	23016.1	20527.9	19570.7	18749.3	17577.6	17245.5	17324.0	21092.6	18214.8
50°	26510.0	26310.6	24520.0	21989.5	21047.2	20733.2	19634.1	19229.4	19117.7	23052.4	20301.5
52.5°	26150.6	26135.5	24942.7	22937.7	22400.2	22786.7	22222.0	21753.9	21343.2	25117.8	22424.3
55°	25573.9	25649.3	25114.9	23768.0	23749.9	24661.9	25761.0	25371.5	24181.8	27361.5	24254.3
57.5°	23982.5	24305.6	25018.1	25338.4	26081.2	27014.3	28708.3	28937.8	27530.6	29079.7	25773.1
60°	19459.0	20168.6	22499.8	25564.8	29085.8	31411.0	32265.5	32461.8	30278.6	30508.0	27823.5
62.5°	13812.1	14536.8	17493.2	22678.0	29131.0	37187.6	37565.1	36795.0	33304.3	32624.9	31359.6
65°	7331.9	7890.4	10306.2	16369.8	25256.8	38528.4	46832.6	44537.6	38643.2	36789.0	35928.4
67.5°	3750.5	3919.5	4879.8	8011.2	17363.3	34222.3	55139.8	56755.3	47844.2	40920.0	35708.0
69°	3318.6	3418.2	4055.4	5791.9	11118.6	28986.2	55544.3	60949.6	52660.6	40575.7	32449.7
70°	3213.0	3300.5	3880.4	5242.2	8690.7	24308.5	53995.3	60581.2	53892.5	39265.1	30015.8
72.5°	2726.8	2802.3	3454.6	4632.3	7063.1	12066.7	43861.1	51334.9	48360.6	32709.4	21726.8
75°	1823.9	2071.5	3315.6	4342.3	6570.9	6854.7	28916.7	37097.1	34460.8	22061.9	11317.8
77.5°	437.9	471.1	936.2	3454.6	6009.3	6033.4	14872.1	23061.5	18809.7	7863.3	2675.4
80°	235.6	226.5	262.8	685.5	5595.5	5662.0	6694.7	11194.0	6715.8	1304.5	881.7
82.5°	166.1	157.0	169.2	287.0	1760.5	5157.7	4843.6	5067.0	2784.2	501.3	395.6
85°	60.4	57.4	93.6	259.7	552.7	2965.3	4976.4	4179.2	2255.7	229.5	289.9
87.5°	21.1	18.1	36.3	141.9	169.2	1262.3	3071.1	3158.5	887.8	138.9	135.9
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°	13899.6	13899.6	13899.6	13899.6	13899.6	13899.6	13899.6	13899.6	13899.6	13899.6	13899.6
2.5°	13775.9	13588.7	13244.4	12891.1	12565.0	12172.5	11976.1	11782.8	11701.3	11671.2	11529.2
5°	13377.2	13060.2	12329.5	11595.6	10919.3	10200.6	9726.5	9345.9	9122.5	9013.8	8841.7
7.5°	12866.9	12347.6	11239.3	10106.9	9053.1	8014.2	7244.2	6652.4	6244.7	6048.5	5870.3
10°	12371.8	11680.3	10104.0	8560.9	7129.5	5752.5	4689.6	3919.5	3427.4	3200.9	3056.0
12.5°	11927.9	11031.0	9007.8	7054.0	5257.3	3644.8	2563.8	1950.8	1645.8	1540.0	1488.7
15°	11532.2	10433.0	7972.0	5622.7	3560.2	2083.6	1401.1	1192.8	1144.5	1144.5	1138.5
17.5°	11157.8	9847.2	6972.5	4278.9	2234.6	1274.3	1066.0	1038.7	1038.7	1050.8	1050.8
20°	10798.4	9288.5	6006.2	3071.1	1407.1	1011.6	963.3	957.2	963.3	978.4	978.4
22.5°	10490.4	8781.2	5103.3	2107.7	1044.8	912.0	887.8	878.8	881.7	890.8	896.8
25°	10261.0	8352.6	4251.8	1428.3	899.9	830.4	803.3	788.2	776.1	776.1	782.1
27.5°	10116.0	7990.1	3427.4	1038.7	809.3	754.9	712.7	688.5	661.3	646.3	652.3
30°	10010.4	7645.9	2654.4	848.5	724.7	670.5	616.0	576.8	537.5	519.4	525.4
32.5°	9971.1	7368.1	1983.9	748.9	649.2	588.8	522.4	471.1	428.9	413.6	416.8
35°	10076.8	7147.6	1452.5	676.5	588.8	513.3	437.9	380.4	347.2	338.1	341.2
37.5°	10354.6	7029.8	1087.1	616.0	534.5	449.9	365.4	311.1	289.9	289.9	293.0
40°	10880.0	7026.9	872.7	573.7	486.2	389.5	302.0	262.8	250.6	256.6	259.7
42.5°	11647.0	7186.8	761.0	534.5	443.9	332.1	250.6	223.4	220.4	226.5	229.5
45°	12694.9	7479.8	700.6	501.3	398.6	277.8	211.4	193.3	193.3	202.3	205.3
47.5°	13978.2	7908.6	649.2	468.0	353.4	232.5	181.2	169.2	172.1	181.2	184.2
50°	15524.3	8449.1	597.8	431.8	320.1	193.3	157.0	147.9	151.0	163.1	166.1
52.5°	17284.9	9176.9	555.6	398.6	277.8	160.1	132.9	126.8	132.9	145.0	147.9
55°	18794.7	9829.2	504.3	371.4	223.4	132.9	108.7	108.7	114.7	129.8	132.9
57.5°	20247.1	10511.7	459.0	320.1	175.2	105.7	90.5	93.6	102.7	117.8	120.8
60°	22379.0	11668.2	404.6	268.8	132.9	84.5	75.5	78.5	90.5	105.7	108.7
62.5°	25999.7	13428.6	350.2	223.4	102.7	66.4	60.4	66.4	81.5	99.7	102.7
65°	29267.0	14144.2	287.0	187.3	78.5	51.4	51.4	60.4	78.5	96.5	99.7
67.5°	27446.0	11906.6	223.4	147.9	60.4	39.3	42.3	57.4	75.5	96.5	99.7
69°	24272.4	9735.5	190.2	117.8	51.4	36.3	39.3	57.4	75.5	93.6	96.5
70°	21799.2	8219.6	169.2	99.7	45.4	36.3	39.3	54.3	75.5	93.6	96.5
72.5°	14600.2	4438.9	135.9	72.4	42.3	33.3	33.3	54.3	72.4	90.5	93.6
75°	6275.0	1226.0	108.7	51.4	36.3	30.1	30.1	51.4	69.5	87.6	93.6
77.5°	1147.4	311.1	87.6	45.4	36.3	30.1	27.2	48.3	66.4	84.5	87.6
80°	455.9	154.0	69.5	39.3	33.3	27.2	24.1	45.4	63.4	81.5	84.5
82.5°	274.8	87.6	57.4	36.3	33.3	24.1	21.1	39.3	60.4	78.5	81.5
85°	223.4	60.4	45.4	36.3	30.1	24.1	18.1	36.3	54.3	75.5	78.5
87.5°	108.7	42.3	42.3	33.3	30.1	24.1	18.1	33.3	51.4	72.4	75.5
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)