

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: P324933

Luminaire Tested: **GAN-SA9C-827-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324933
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-30)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9C-827-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38053 lumens
Efficiency: N/A
Efficacy: 76.0 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

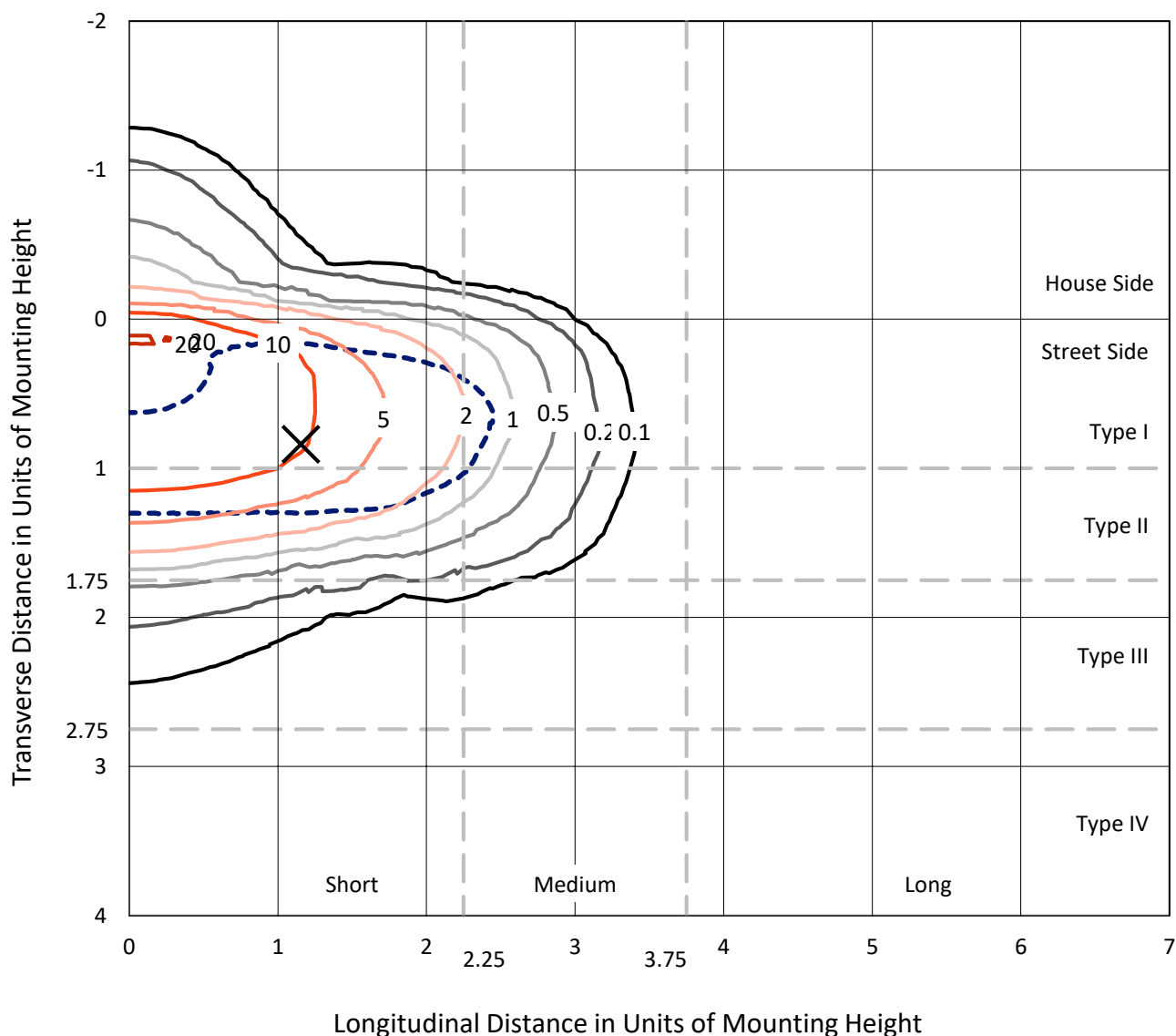
Input Watts (W): 501
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

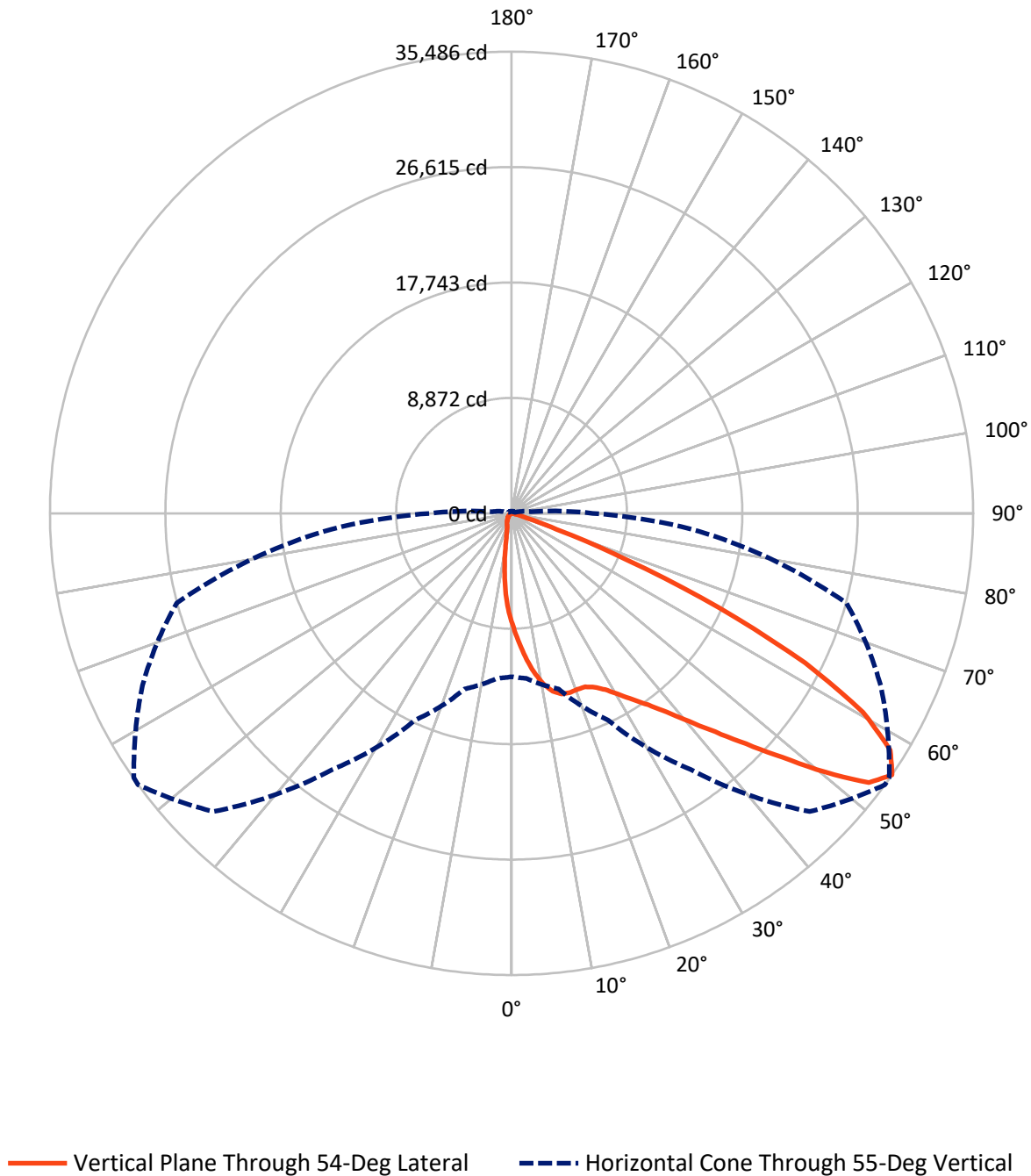
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1898.6	0.0	1898.6
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	36154.4	0.0	36154.4
	% Fixture	95.0	0.0	95.0
Total	Lumens	38053.0	0.0	38053.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	784.8	2.1
10°-20°	2152.4	5.7
20°-30°	3674.8	9.7
30°-40°	5897.4	15.5
40°-50°	9424.1	24.8
50°-60°	10098.2	26.5
60°-70°	5184.7	13.6
70°-80°	785.4	2.1
80°-90°	51.1	0.1
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°	38053.0	100.0
0°-180°	38053.0	100.0

Coefficient of Utilization



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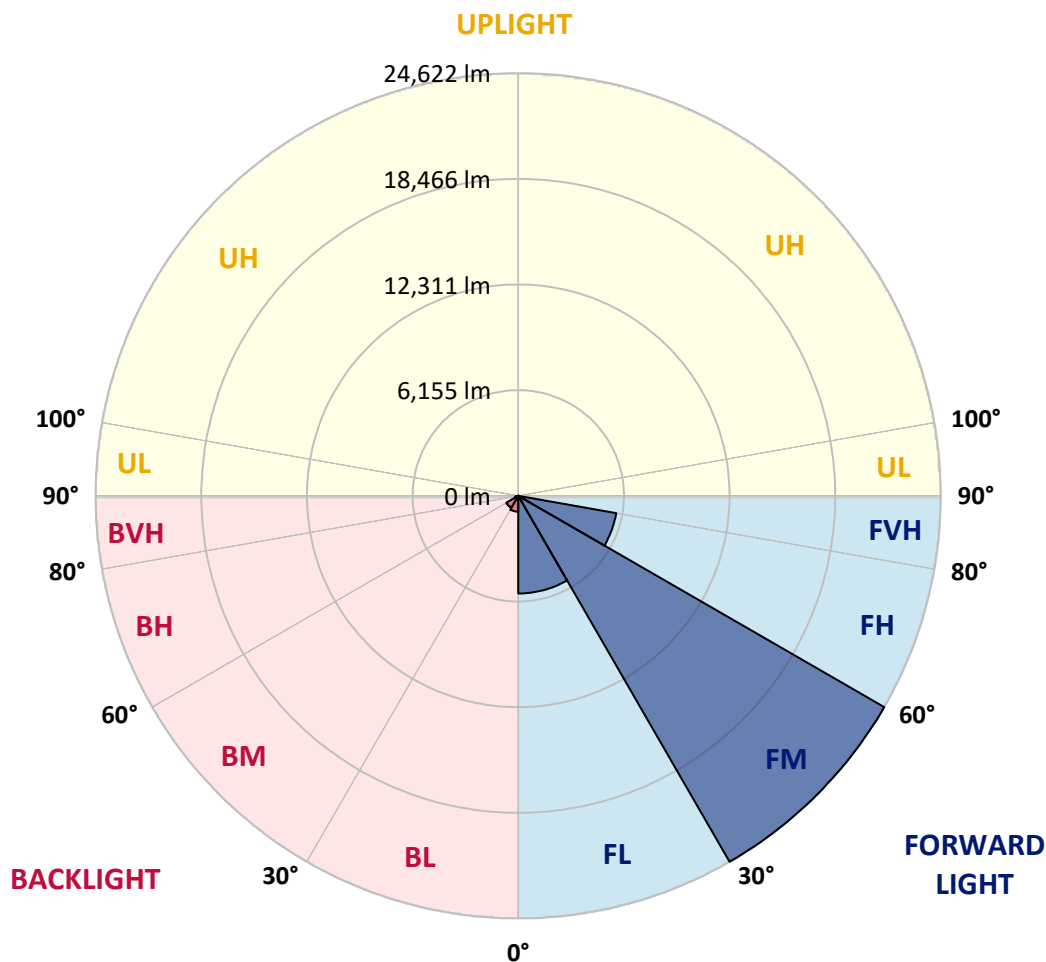
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5688.3	14.9			
FM	(30°-60°)	24622.0	64.7			
FH	(60°-80°)	5795.1	15.2			G3/7500
FVH	(80°-90°)	49.1	0.1			G1/100
BL	(0°-30°)	923.7	2.4	B2/1000		
BM	(30°-60°)	797.8	2.1	B1/1000		
BH	(60°-80°)	175.0	0.5	B1/500		G1/500
BVH	(80°-90°)	2.1	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	8522.3	8522.3	8522.3	8522.3	8522.3	8522.3	8522.3	8522.3	8522.3	8522.3	8522.3
2.5°	10694.8	10535.4	10540.4	10468.1	10203.5	9996.4	9781.1	9730.2	9395.0	9043.3	8704.8
5°	12543.6	12426.9	12399.0	12259.3	11891.2	11501.7	11084.3	10987.3	10331.7	9611.9	8903.6
7.5°	13493.4	13495.1	13472.1	13421.1	13191.1	12813.1	12303.7	12201.8	11309.4	10229.8	9110.7
10°	13217.4	13279.8	13408.0	13577.2	13753.1	13705.4	13322.5	13230.5	12260.9	10883.8	9340.7
12.5°	12573.2	12581.4	12724.4	13002.1	13508.2	14027.5	14034.1	14002.9	13169.7	11567.4	9593.8
15°	12252.7	12283.9	12336.5	12515.7	12995.5	13827.0	14421.9	14466.3	14002.9	12293.8	9863.3
17.5°	12463.1	12507.4	12463.1	12484.4	12762.2	13509.9	14489.3	14602.7	14730.9	13011.9	10118.0
20°	13033.3	13074.4	12995.5	12908.4	12962.6	13417.8	14441.6	14594.5	15301.1	13649.6	10331.7
22.5°	13802.4	13818.8	13698.9	13555.9	13516.4	13730.1	14481.1	14638.8	15758.0	14226.4	10466.4
25°	14648.7	14663.5	14514.0	14349.6	14255.9	14343.0	14804.8	14923.1	16160.6	14776.9	10543.6
27.5°	15570.6	15583.8	15396.4	15194.3	15085.8	15089.1	15338.9	15465.4	16589.5	15404.6	10606.1
30°	16545.1	16538.5	16366.0	16085.0	15946.9	15943.7	16108.0	16236.2	17210.7	16209.9	10691.5
32.5°	17639.6	17626.4	17381.6	17033.2	16877.1	16900.1	17046.3	17120.3	17981.4	17067.7	10844.4
35°	19080.8	19043.0	18673.2	18241.0	17953.5	17945.2	18068.5	18127.6	18964.1	18106.3	11099.1
37.5°	20950.9	20916.4	20415.2	19787.4	19383.2	19232.0	19378.2	19453.8	20365.9	19439.0	11508.3
40°	22794.7	22760.2	22462.8	21887.6	21264.8	20901.6	21016.6	21097.2	22116.0	21056.1	12024.3
42.5°	24066.7	24096.2	24199.8	24247.4	23664.1	22901.5	22954.1	23037.9	23954.9	22784.9	12614.3
45°	24401.9	24466.0	25051.0	26199.7	26418.3	25823.4	25272.9	25318.9	25823.4	24513.7	13204.2
47.5°	23394.5	23512.9	24641.8	26778.2	28628.6	29049.3	28007.4	27946.6	27616.3	25912.1	13623.3
50°	21105.4	21213.8	22676.4	25836.5	29299.1	32128.9	31284.2	31105.1	29188.9	26748.6	13771.2
52.5°	17792.4	17923.9	19112.0	22872.0	28035.3	33502.7	34386.8	34237.3	30342.6	26814.3	13795.8
55°	12565.0	12724.4	13981.5	17529.5	24030.5	32409.9	35486.2	35441.8	31300.6	26640.1	13848.4
57.5°	7061.4	7176.5	8532.2	11237.1	17600.1	28229.2	34337.5	34631.7	31879.1	26337.8	13927.3
60°	3135.5	3166.7	3868.4	5593.9	10303.7	21573.7	31049.2	31545.5	31382.8	25933.5	14060.4
62.5°	1738.7	1712.4	1712.4	2325.3	4478.1	13355.4	25318.9	26138.9	29264.5	25455.3	14067.0
65°	1362.3	1337.7	1267.0	1276.9	1705.8	5927.5	17532.8	18990.4	25241.7	24053.5	13593.7
67.5°	1155.3	1133.9	1063.2	1035.3	1060.0	1955.6	9633.2	11146.8	19153.1	20410.2	11774.5
70°	976.1	961.4	925.2	890.7	828.2	966.3	3686.0	4714.7	11802.4	13577.2	8037.6
72.5°	785.5	778.9	792.1	762.5	686.9	644.2	1260.4	1526.7	5301.4	6059.0	3311.3
75°	677.1	673.8	680.3	650.8	565.3	448.6	640.9	700.1	1495.4	1482.3	670.5
77.5°	440.4	445.3	563.7	550.5	486.4	299.1	332.0	358.2	453.6	340.2	203.8
80°	281.0	277.7	285.9	456.8	437.1	228.4	166.0	174.2	218.6	167.6	98.6
82.5°	170.9	167.6	187.3	213.6	220.2	159.4	101.9	103.5	136.4	108.5	52.6
85°	14.8	19.7	113.4	105.2	75.6	49.3	49.3	52.6	72.3	64.1	29.6
87.5°	0.0	0.0	19.7	29.6	16.4	18.1	18.1	19.7	27.9	27.9	14.8
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°	8522.3	8522.3	8522.3	8522.3	8522.3	8522.3	8522.3	8522.3	8522.3	8522.3	8522.3
2.5°	8528.9	8358.0	8012.9	7681.0	7399.9	7128.8	6819.8	6514.2	6371.2	6313.7	6254.5
5°	8543.7	8192.0	7480.5	6764.0	6021.2	5352.3	4782.1	4197.1	3904.6	3776.4	3717.2
7.5°	8563.4	8027.7	6877.4	5674.4	4478.1	3571.0	2778.9	2269.4	2049.2	2014.7	1929.3
10°	8566.7	7828.9	6177.3	4471.5	3002.4	2152.8	1656.5	1393.5	1296.6	1280.2	1252.2
12.5°	8573.3	7593.9	5400.0	3311.3	2001.6	1439.6	1198.0	1110.9	1084.6	1083.0	1083.0
15°	8593.0	7347.4	4593.1	2386.1	1437.9	1140.5	1051.7	1017.2	1007.4	1012.3	1010.7
17.5°	8593.0	7056.5	3801.0	1778.1	1161.8	1025.4	976.1	953.1	949.8	954.8	956.4
20°	8530.6	6703.2	3074.7	1383.7	1030.4	951.5	907.1	885.8	877.5	880.8	882.5
22.5°	8381.0	6269.3	2483.1	1145.4	943.3	884.1	836.5	803.6	790.4	792.1	792.1
25°	8147.7	5755.0	1942.4	990.9	872.6	811.8	755.9	718.1	709.9	708.3	711.6
27.5°	7848.6	5186.4	1546.4	872.6	788.8	731.3	675.4	644.2	637.6	639.3	640.9
30°	7554.4	4596.4	1219.4	772.4	695.1	640.9	598.2	583.4	583.4	588.3	590.0
32.5°	7284.9	4029.5	964.6	685.3	611.3	562.0	537.4	535.7	543.9	547.2	548.9
35°	7053.2	3505.2	798.7	617.9	545.6	502.9	494.6	501.2	511.1	517.7	519.3
37.5°	6888.9	3036.9	698.4	562.0	494.6	460.1	458.5	471.6	484.8	499.6	502.9
40°	6819.8	2640.8	629.4	512.7	453.6	427.3	422.3	440.4	465.1	486.4	489.7
42.5°	6762.3	2317.1	570.2	465.1	420.7	382.9	381.3	404.3	433.8	455.2	460.1
45°	6713.0	2057.5	516.0	414.1	378.0	328.7	333.6	363.2	386.2	409.2	414.1
47.5°	6611.1	1843.8	456.8	359.9	312.2	281.0	290.9	317.2	335.2	369.8	374.7
50°	6428.7	1669.6	396.0	294.2	254.7	243.2	258.0	276.1	299.1	328.7	332.0
52.5°	6305.5	1538.2	343.5	246.5	210.3	213.6	228.4	235.0	248.1	259.6	256.4
55°	6234.8	1465.9	300.7	213.6	179.1	189.0	192.3	184.1	177.5	166.0	161.0
57.5°	6226.6	1400.1	267.9	185.7	157.8	162.7	151.2	123.3	100.2	87.1	83.8
60°	6213.5	1319.6	241.6	156.1	139.7	133.1	108.5	67.4	47.7	44.4	44.4
62.5°	6070.5	1194.7	221.9	131.5	118.3	100.2	62.4	31.2	26.3	27.9	27.9
65°	5615.3	1020.5	202.1	106.8	93.7	72.3	31.2	18.1	9.9	11.5	11.5
67.5°	4773.9	813.5	180.8	82.2	70.7	46.0	18.1	8.2	0.0	0.0	0.0
70°	3196.3	504.5	152.8	57.5	46.0	27.9	13.1	1.6	0.0	0.0	0.0
72.5°	1225.9	272.8	123.3	34.5	29.6	19.7	8.2	0.0	0.0	0.0	0.0
75°	276.1	179.1	85.5	24.7	21.4	13.1	3.3	0.0	0.0	0.0	0.0
77.5°	105.2	129.8	49.3	16.4	14.8	8.2	0.0	0.0	0.0	0.0	0.0
80°	50.9	77.2	23.0	9.9	8.2	3.3	0.0	0.0	0.0	0.0	0.0
82.5°	26.3	29.6	9.9	4.9	3.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	14.8	14.8	4.9	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.2	4.9	1.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)