

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: P321449

Luminaire Tested: **GAN-SA5C-830-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321449
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-9)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5C-830-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22675 lumens
Efficiency: N/A
Efficacy: 81.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

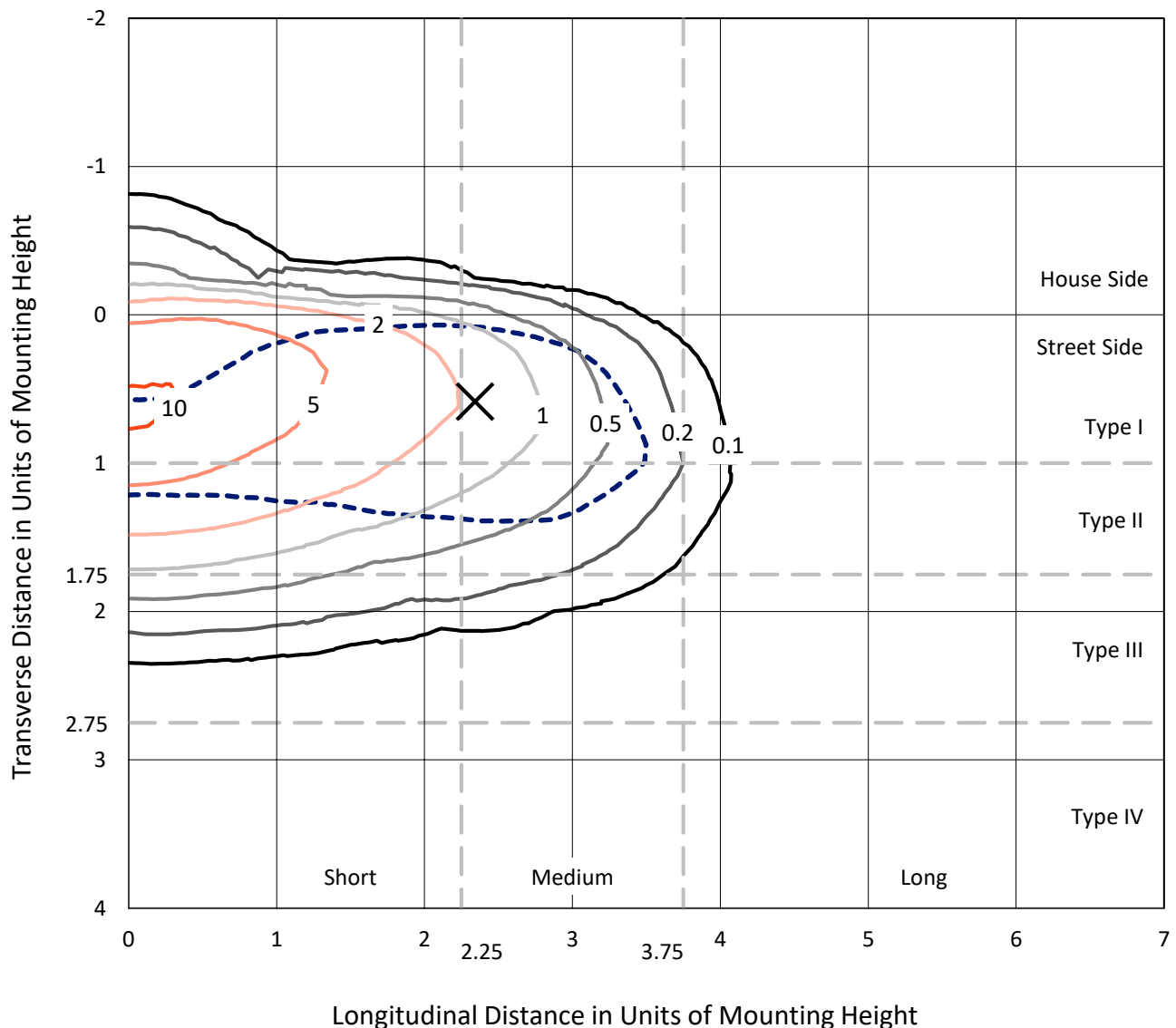
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

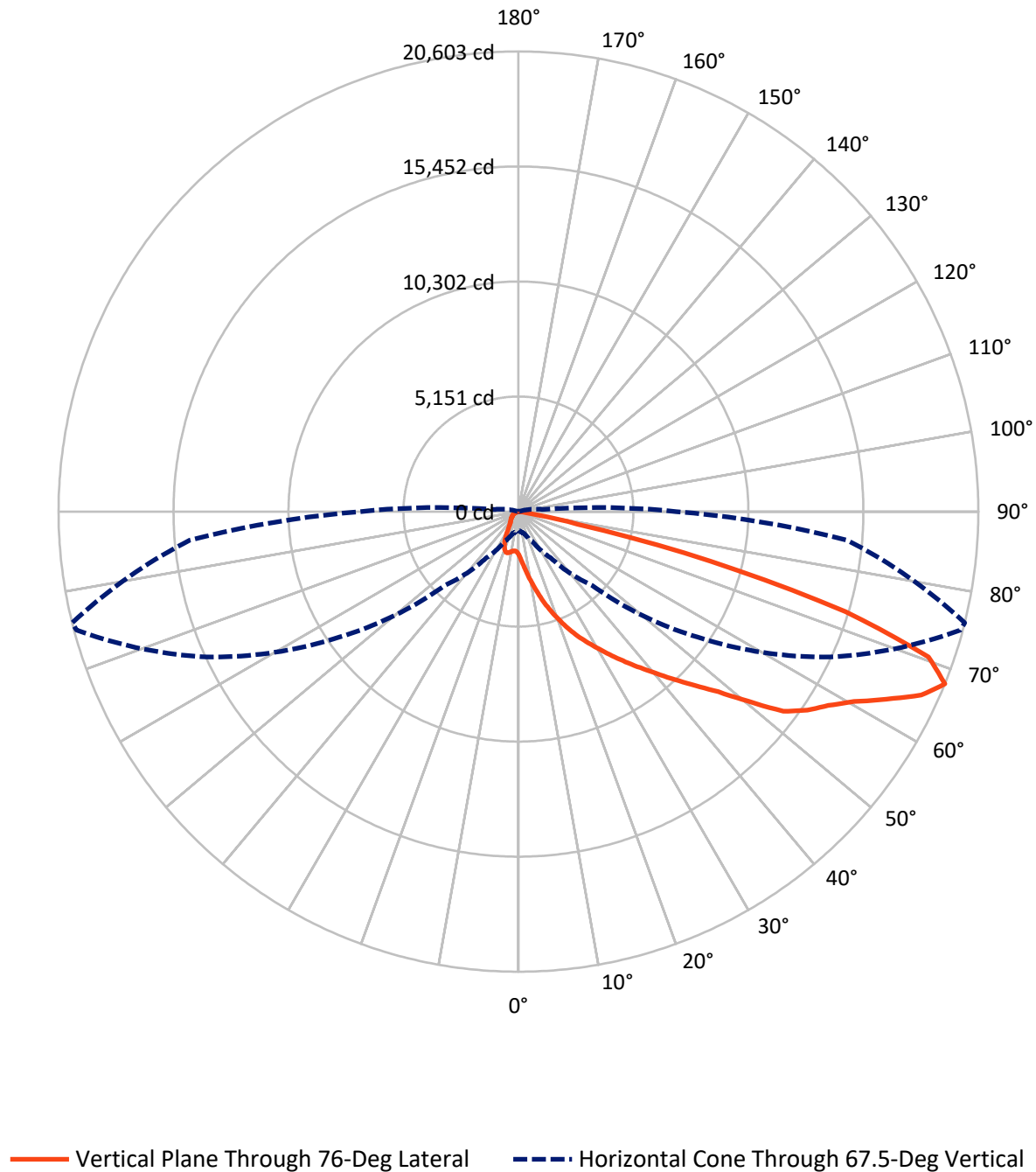
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1126.0	0.0	1126.0
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	21549.0	0.0	21549.0
	% Fixture	95.0	0.0	95.0
Total	Lumens	22675.0	0.0	22675.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	239.2	1.1
10°-20°	948.2	4.2
20°-30°	1929.2	8.5
30°-40°	3348.5	14.8
40°-50°	4730.9	20.9
50°-60°	5365.1	23.7
60°-70°	4449.8	19.6
70°-80°	1611.9	7.1
80°-90°	52.3	0.2
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°	22675.0	100.0
0°-180°	22675.0	100.0

Coefficient of Utilization



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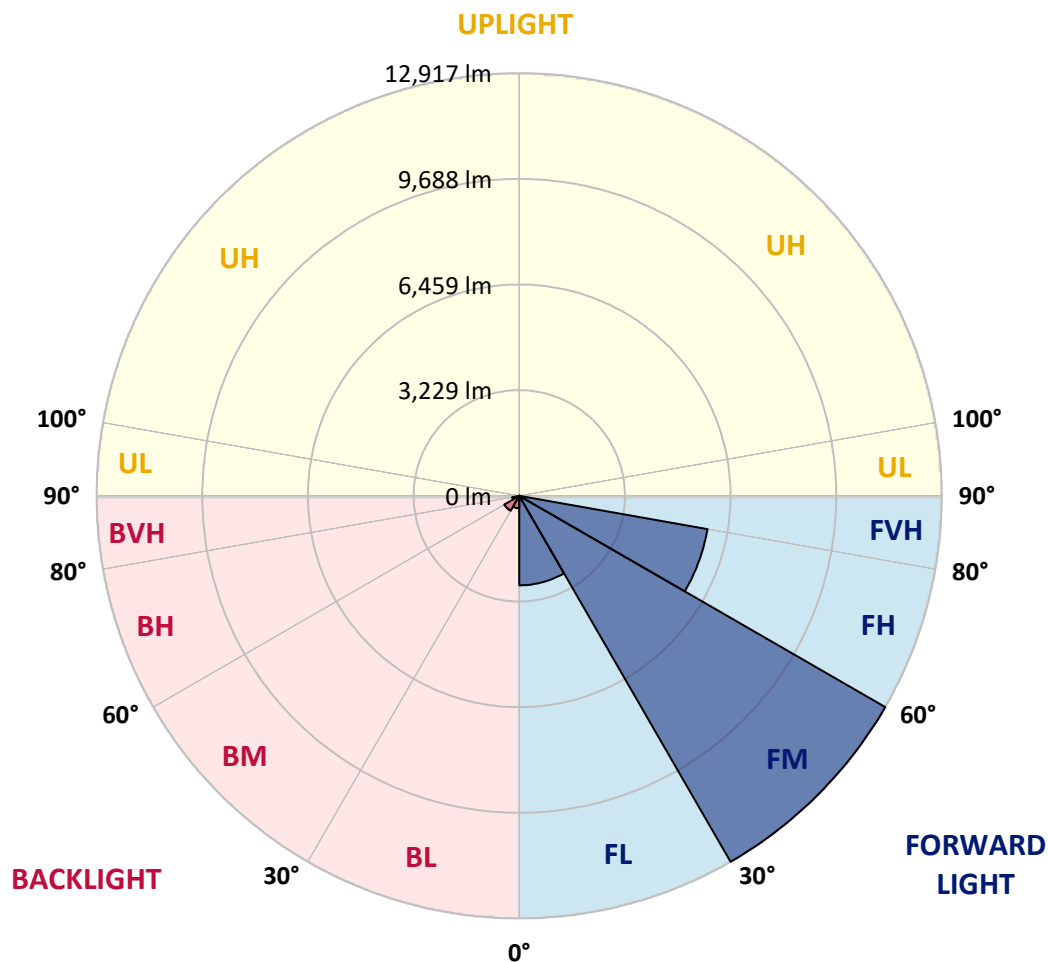
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2736.8	12.1			
FM	(30°-60°)	12917.5	57.0			
FH	(60°-80°)	5844.1	25.8			G3/7500
FVH	(80°-90°)	50.6	0.2			G1/100
BL	(0°-30°)	379.7	1.7	B1/500		
BM	(30°-60°)	527.0	2.3	B1/1000		
BH	(60°-80°)	217.6	1.0	B1/500		G1/500
BVH	(80°-90°)	1.6	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1923.5	1923.5	1923.5	1923.5	1923.5	1923.5	1923.5	1923.5	1923.5	1923.5	1923.5
2.5°	2871.3	2806.8	2821.7	2779.9	2704.4	2549.4	2417.3	2292.1	2146.1	2141.1	2020.9
5°	3871.8	3817.2	3810.2	3725.8	3588.7	3325.4	3069.1	2776.9	2451.1	2427.2	2171.9
7.5°	4779.9	4736.2	4720.3	4620.0	4364.6	4108.3	3774.5	3345.3	2835.6	2791.9	2375.6
10°	5477.4	5456.5	5460.5	5389.0	5170.4	4931.9	4493.8	3946.3	3271.7	3204.2	2620.0
12.5°	6006.0	6010.9	6046.7	6003.0	5880.8	5703.9	5236.0	4587.2	3754.6	3662.2	2899.2
15°	6394.4	6419.3	6484.8	6539.5	6530.5	6377.5	5948.3	5238.0	4267.3	4164.9	3210.1
17.5°	6645.8	6673.6	6769.0	6890.2	7001.5	6965.7	6635.9	5865.9	4785.9	4667.7	3543.0
20°	6866.4	6899.2	7001.5	7161.4	7369.1	7413.8	7197.2	6474.9	5303.5	5159.5	3886.7
22.5°	7344.3	7343.3	7405.9	7499.3	7697.0	7812.2	7675.1	7040.2	5815.2	5665.2	4237.5
25°	8208.6	8175.9	8154.0	8080.5	8124.2	8195.7	8119.2	7568.8	6329.9	6177.8	4593.1
27.5°	9236.0	9255.8	9079.0	8881.3	8728.3	8654.7	8529.6	8058.6	6824.6	6657.7	4940.9
30°	10319.9	10325.9	10117.2	9864.9	9528.1	9248.9	9032.3	8526.6	7333.3	7151.5	5278.7
32.5°	11297.6	11258.8	11052.2	10708.4	10283.2	9969.2	9519.1	9049.2	7871.8	7696.0	5654.2
35°	12072.5	12026.8	11775.5	11462.5	11021.4	10705.4	10163.9	9570.8	8438.1	8266.3	6030.8
37.5°	12638.8	12585.2	12326.9	12005.0	11624.4	11440.6	10912.1	10138.1	9056.1	8871.3	6427.2
40°	12835.6	12788.9	12626.9	12391.5	12085.4	12043.7	11705.9	10790.9	9728.8	9532.0	6876.3
42.5°	12718.3	12672.6	12615.0	12535.5	12408.3	12448.1	12455.0	11535.0	10475.9	10282.2	7372.1
45°	12253.3	12212.6	12272.2	12388.5	12546.4	12743.2	13138.6	12334.8	11310.5	11103.8	7945.4
47.5°	11568.8	11539.0	11703.9	11994.0	12456.0	12998.5	13763.5	13175.4	12247.4	12055.6	8660.7
50°	10595.1	10590.2	10920.0	11449.6	12160.0	13121.7	14409.3	14131.1	13548.9	13347.2	9655.2
52.5°	9079.0	9088.9	9737.7	10585.2	11640.3	13038.2	14824.6	15359.2	15063.1	14853.4	10516.6
55°	7635.4	7695.0	8155.0	9377.0	10843.5	12728.3	14967.7	15932.4	15898.7	15699.9	10995.5
57.5°	6221.6	6329.9	6773.0	7914.6	9680.1	12013.9	14889.2	16180.8	16520.6	16368.6	11627.4
60°	4689.5	4739.2	5249.9	6316.9	8186.8	10710.4	14319.9	16315.9	17371.1	17265.8	12544.5
62.5°	2983.6	3107.8	3560.9	4590.2	6374.6	8900.1	13360.2	16314.0	18435.2	18492.8	13727.8
65°	1571.8	1716.8	1957.3	2844.5	4380.5	6878.3	11916.5	16160.9	19740.7	19821.2	14652.8
67.5°	847.5	889.2	1016.4	1476.4	2540.5	4659.7	9795.3	15405.9	20496.8	20603.1	14781.9
70°	620.0	642.8	690.5	816.7	1278.7	2706.4	7147.5	13694.0	19522.1	19482.4	13133.6
72.5°	475.9	511.7	547.4	598.1	735.2	1444.6	4450.1	10723.3	15576.7	15314.5	9817.2
75°	375.6	381.5	432.2	477.9	551.4	822.7	1976.2	6245.4	9507.2	8886.2	5090.9
77.5°	300.0	304.0	333.8	373.6	443.1	540.5	612.0	2457.0	3035.3	2708.4	1104.8
80°	177.8	187.8	248.4	288.1	367.6	340.8	223.5	533.5	473.9	429.2	185.8
82.5°	99.4	107.3	140.1	227.5	256.3	162.9	111.3	144.1	111.3	108.3	52.7
85°	0.0	5.0	90.4	141.1	104.3	35.8	46.7	47.7	32.8	30.8	20.9
87.5°	0.0	0.0	27.8	26.8	4.0	6.0	10.9	15.9	12.9	12.9	10.9
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°	1923.5	1923.5	1923.5	1923.5	1923.5	1923.5	1923.5	1923.5	1923.5	1923.5	1923.5
2.5°	1961.3	1907.6	1806.3	1706.9	1623.4	1554.9	1493.3	1468.5	1448.6	1445.6	1429.7
5°	2048.7	1940.4	1746.6	1587.7	1481.4	1405.9	1341.3	1301.5	1270.7	1258.8	1247.9
7.5°	2180.8	2016.9	1738.7	1555.9	1428.7	1301.5	1182.3	1053.2	972.7	941.9	924.0
10°	2341.8	2118.2	1768.5	1546.9	1324.4	1056.1	858.4	694.5	627.9	606.1	600.1
12.5°	2529.6	2244.4	1820.2	1491.3	1101.8	750.1	592.2	536.5	521.6	514.7	514.7
15°	2745.2	2382.5	1856.9	1330.4	814.7	567.3	512.7	486.8	470.9	462.0	463.0
17.5°	2965.7	2517.6	1839.0	1096.9	601.1	504.7	464.0	436.2	414.3	405.4	403.4
20°	3188.3	2642.8	1739.7	816.7	508.7	458.0	412.3	381.5	359.7	350.7	348.7
22.5°	3418.8	2749.1	1564.8	599.1	457.0	406.4	361.6	330.8	310.0	302.0	298.1
25°	3643.3	2835.6	1320.4	484.8	408.3	357.7	315.0	286.1	267.3	259.3	258.3
27.5°	3853.0	2890.2	1037.3	428.2	365.6	314.0	275.2	249.4	233.5	227.5	226.5
30°	4041.7	2895.2	767.0	386.5	327.9	276.2	240.4	217.6	203.7	197.7	195.7
32.5°	4232.5	2853.5	558.4	348.7	293.1	243.4	208.6	190.8	180.8	175.9	175.9
35°	4412.3	2757.1	435.2	315.9	259.3	211.6	183.8	170.9	164.9	160.0	160.0
37.5°	4588.2	2619.0	369.6	287.1	227.5	184.8	161.9	154.0	149.0	144.1	144.1
40°	4767.0	2445.1	335.8	260.3	201.7	163.9	144.1	137.1	132.1	128.2	127.2
42.5°	4986.6	2244.4	314.0	235.5	178.8	145.1	127.2	119.2	115.3	111.3	109.3
45°	5240.9	2071.5	296.1	210.6	160.0	129.2	110.3	102.3	96.4	91.4	90.4
47.5°	5607.5	1946.3	272.2	183.8	142.1	112.3	95.4	86.4	77.5	72.5	71.5
50°	6075.5	1843.0	241.4	160.0	124.2	95.4	79.5	68.6	60.6	55.6	55.6
52.5°	6308.0	1707.9	213.6	139.1	104.3	80.5	64.6	51.7	47.7	42.7	42.7
55°	6401.4	1604.6	185.8	118.2	86.4	66.6	50.7	39.7	36.8	33.8	32.8
57.5°	6663.7	1574.8	161.9	100.3	71.5	52.7	38.7	29.8	27.8	23.8	23.8
60°	7085.9	1589.7	140.1	85.4	57.6	40.7	28.8	22.9	20.9	16.9	16.9
62.5°	7542.0	1570.8	118.2	73.5	44.7	29.8	19.9	16.9	16.9	9.9	8.9
65°	7629.4	1398.9	101.3	60.6	34.8	21.9	12.9	10.9	14.9	2.0	0.0
67.5°	7081.0	1084.9	87.4	46.7	25.8	16.9	9.9	5.0	12.9	0.0	0.0
70°	5662.2	689.5	70.5	33.8	19.9	13.9	7.9	2.0	9.9	0.0	0.0
72.5°	4004.0	400.4	55.6	23.8	16.9	10.9	6.0	0.0	6.0	0.0	0.0
75°	2024.8	213.6	34.8	17.9	12.9	7.9	4.0	0.0	1.0	0.0	0.0
77.5°	438.2	99.4	21.9	12.9	8.9	5.0	2.0	0.0	0.0	0.0	0.0
80°	95.4	43.7	13.9	7.9	5.0	3.0	0.0	0.0	0.0	0.0	0.0
82.5°	34.8	22.9	7.0	4.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	18.9	11.9	4.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.9	4.0	1.0	1.0	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)