

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: P321289

Luminaire Tested: **GAN-SA5C-740-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321289
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-740-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 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: 28535 lumens
Efficiency: N/A
Efficacy: 102.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

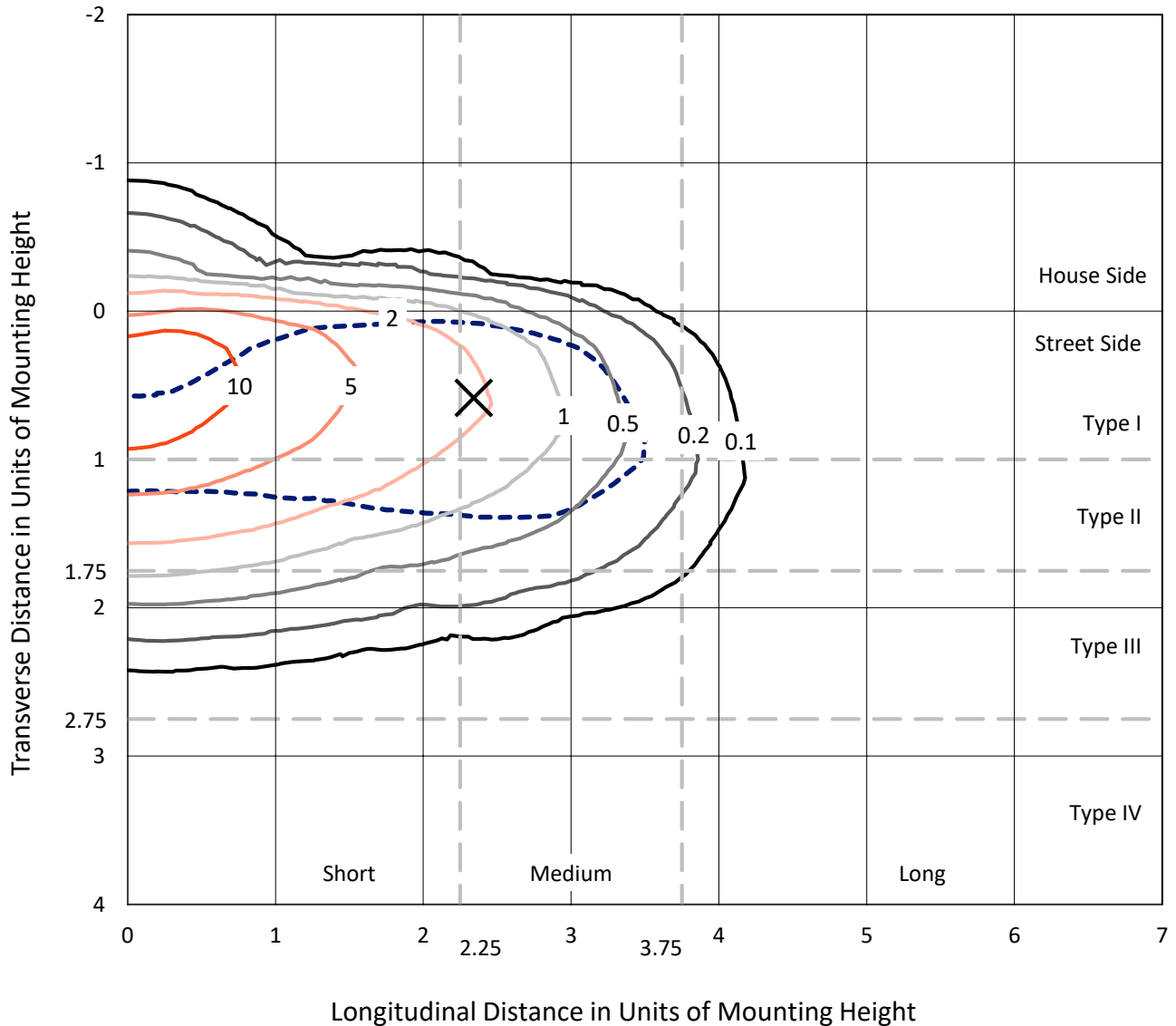
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

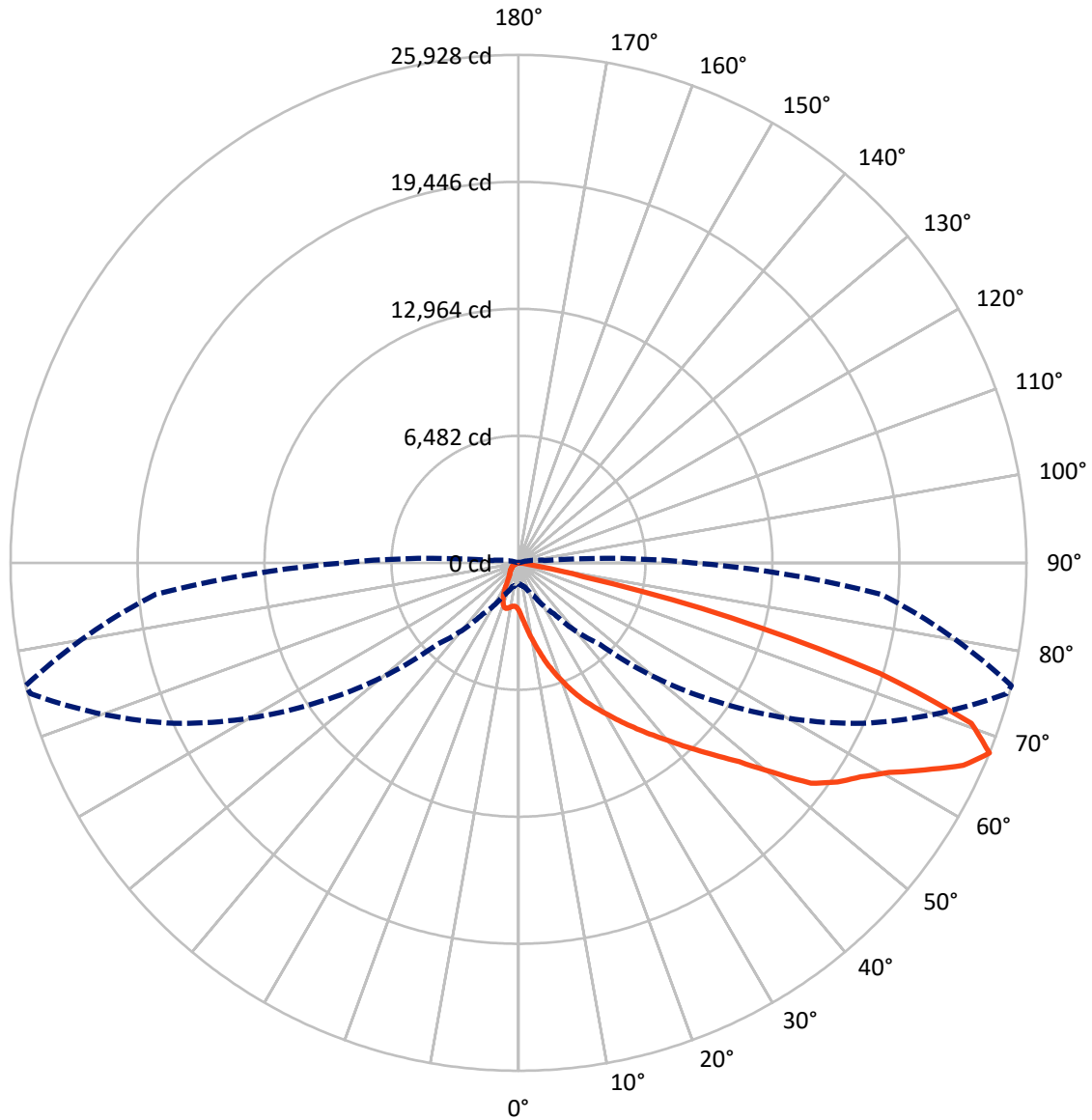
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.6 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1417.0	0.0	1417.0
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	27118.0	0.0	27118.0
	% Fixture	95.0	0.0	95.0
Total	Lumens	28535.0	0.0	28535.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	301.0	1.1
10°-20°	1193.2	4.2
20°-30°	2427.8	8.5
30°-40°	4213.8	14.8
40°-50°	5953.6	20.9
50°-60°	6751.6	23.7
60°-70°	5599.8	19.6
70°-80°	2028.4	7.1
80°-90°	65.8	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°	28535.0	100.0
0°-180°	28535.0	100.0

Coefficient of Utilization

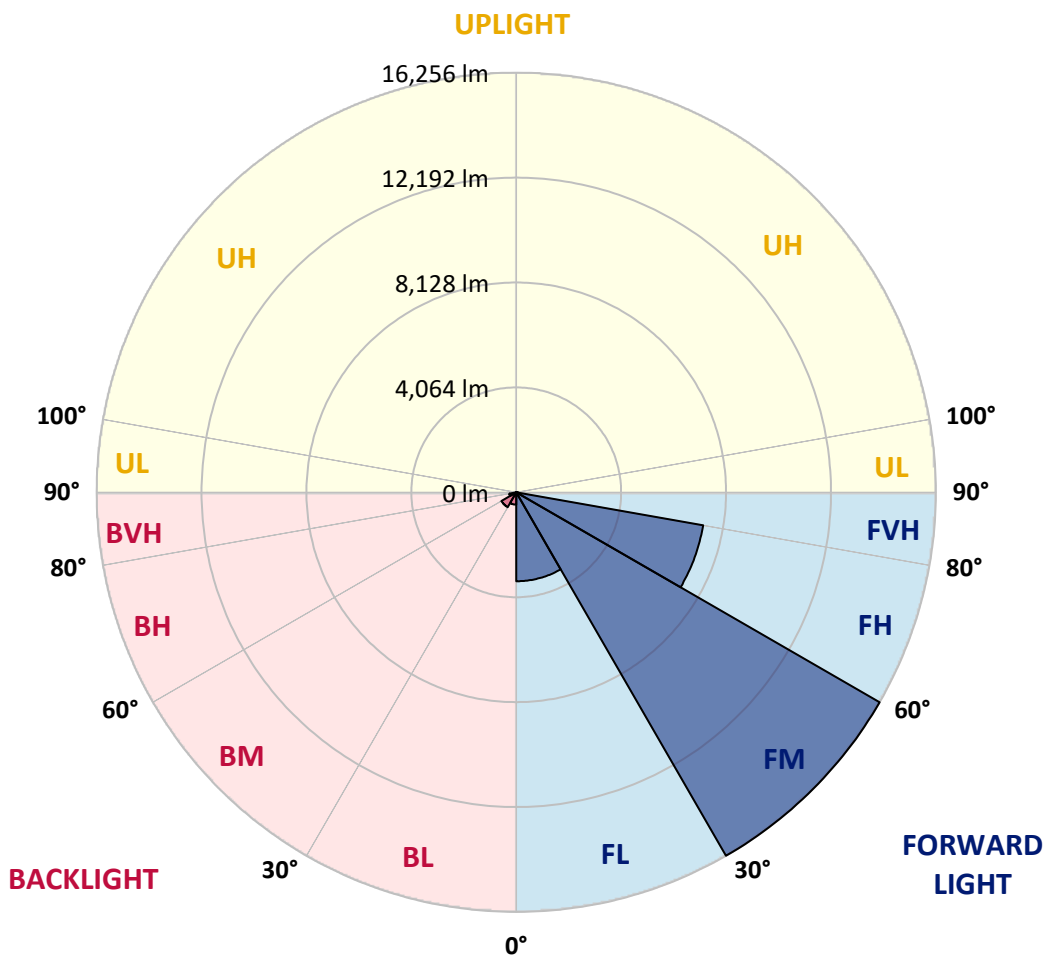


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3444.1	12.1			
FM (30°-60°)	16255.8	57.0			
FH (60°-80°)	7354.4	25.8			G3/7500
FVH (80°-90°)	63.7	0.2			G1/100
BL (0°-30°)	477.9	1.7	B1/500		
BM (30°-60°)	663.2	2.3	B1/1000		
BH (60°-80°)	273.8	1.0	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: 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°	2420.6	2420.6	2420.6	2420.6	2420.6	2420.6	2420.6	2420.6	2420.6	2420.6	2420.6
2.5°	3613.4	3532.1	3550.9	3498.4	3403.3	3208.3	3042.0	2884.5	2700.7	2694.4	2543.1
5°	4872.4	4803.7	4794.9	4688.7	4516.1	4184.8	3862.2	3494.6	3084.5	3054.5	2733.2
7.5°	6015.2	5960.2	5940.2	5813.9	5492.6	5170.0	4749.9	4209.8	3568.4	3513.4	2989.5
10°	6892.9	6866.7	6871.7	6781.7	6506.6	6206.5	5655.1	4966.2	4117.3	4032.2	3297.1
12.5°	7558.1	7564.4	7609.4	7554.4	7400.6	7178.0	6589.1	5772.7	4724.9	4608.6	3648.4
15°	8047.0	8078.2	8160.8	8229.5	8218.3	8025.7	7485.6	6591.6	5370.1	5241.3	4039.7
17.5°	8363.3	8398.3	8518.3	8670.9	8810.9	8765.9	8350.8	7381.8	6022.7	5873.9	4458.6
20°	8640.9	8682.1	8810.9	9012.2	9273.5	9329.8	9057.2	8148.3	6674.1	6492.8	4891.2
22.5°	9242.3	9241.0	9319.8	9437.3	9686.1	9831.2	9658.6	8859.7	7318.0	7129.3	5332.6
25°	10330.0	10288.8	10261.3	10168.7	10223.8	10313.8	10217.5	9524.8	7965.7	7774.4	5780.2
27.5°	11622.9	11647.9	11425.3	11176.5	10983.9	10891.4	10733.9	10141.2	8588.4	8378.3	6217.8
30°	12986.9	12994.4	12731.9	12414.3	11990.4	11639.1	11366.5	10730.1	9228.5	8999.7	6642.9
32.5°	14217.2	14168.5	13908.4	13475.8	12940.7	12545.6	11979.2	11387.8	9906.2	9684.9	7115.5
35°	15192.5	15135.0	14818.6	14424.8	13869.7	13472.1	12790.6	12044.2	10618.9	10402.6	7589.4
37.5°	15905.2	15837.6	15512.6	15107.5	14628.6	14397.3	13732.1	12758.1	11396.5	11164.0	8088.2
40°	16152.7	16094.0	15890.2	15593.8	15208.7	15156.2	14731.1	13579.6	12243.0	11995.4	8653.4
42.5°	16005.2	15947.7	15875.1	15775.1	15615.1	15665.1	15673.8	14516.1	13183.2	12939.4	9277.3
45°	15420.0	15368.8	15443.8	15590.1	15788.9	16036.4	16534.1	15522.6	14233.5	13973.4	9998.7
47.5°	14558.6	14521.1	14728.6	15093.7	15675.1	16357.8	17320.5	16580.3	15412.5	15171.2	10898.9
50°	13333.3	13327.0	13742.1	14408.5	15302.5	16512.8	18133.2	17783.1	17050.4	16796.6	12150.5
52.5°	11425.3	11437.8	12254.3	13320.8	14648.6	16407.8	18655.8	19328.5	18955.9	18692.1	13234.5
55°	9608.6	9683.6	10262.5	11800.4	13645.9	16017.7	18835.9	20049.9	20007.4	19757.4	13837.1
57.5°	7829.4	7965.7	8523.3	9959.9	12181.7	15118.7	18737.1	20362.5	20790.1	20598.8	14632.3
60°	5901.4	5964.0	6606.6	7949.5	10302.5	13478.3	18020.7	20532.5	21860.4	21727.8	15786.4
62.5°	3754.7	3911.0	4481.1	5776.4	8022.0	11200.3	16812.9	20530.0	23199.4	23272.0	17275.5
65°	1978.0	2160.5	2463.1	3579.6	5512.6	8655.9	14996.2	20337.5	24842.4	24943.6	18439.5
67.5°	1066.5	1119.0	1279.1	1858.0	3197.0	5863.9	12326.8	19387.3	25793.8	25927.6	18602.1
70°	780.2	808.9	869.0	1027.8	1609.1	3405.8	8994.7	17233.0	24567.3	24517.3	16527.8
72.5°	598.9	643.9	688.9	752.7	925.2	1817.9	5600.1	13494.6	19602.3	19272.2	12354.3
75°	472.6	480.1	543.9	601.4	693.9	1035.3	2486.9	7859.4	11964.2	11182.7	6406.6
77.5°	377.6	382.6	420.1	470.1	557.6	680.2	770.2	3092.0	3819.7	3408.3	1390.3
80°	223.8	236.3	312.6	362.6	462.6	428.9	281.3	671.4	596.4	540.1	233.8
82.5°	125.0	135.0	176.3	286.3	322.6	205.1	140.0	181.3	140.0	136.3	66.3
85°	0.0	6.3	113.8	177.5	131.3	45.0	58.8	60.0	41.3	38.8	26.3
87.5°	0.0	0.0	35.0	33.8	5.0	7.5	13.8	20.0	16.3	16.3	13.8
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°	2420.6	2420.6	2420.6	2420.6	2420.6	2420.6	2420.6	2420.6	2420.6	2420.6	2420.6
2.5°	2468.1	2400.6	2273.1	2148.0	2043.0	1956.7	1879.2	1848.0	1822.9	1819.2	1799.2
5°	2578.1	2441.8	2198.0	1998.0	1864.2	1769.2	1687.9	1637.9	1599.1	1584.1	1570.4
7.5°	2744.4	2538.1	2188.0	1958.0	1797.9	1637.9	1487.9	1325.3	1224.1	1185.3	1162.8
10°	2947.0	2665.7	2225.5	1946.7	1666.7	1329.1	1080.3	874.0	790.2	762.7	755.2
12.5°	3183.3	2824.4	2290.6	1876.7	1386.6	944.0	745.2	675.2	656.4	647.7	647.7
15°	3454.6	2998.2	2336.8	1674.2	1025.3	713.9	645.2	612.7	592.6	581.4	582.6
17.5°	3732.2	3168.3	2314.3	1380.3	756.4	635.2	583.9	548.9	521.4	510.1	507.6
20°	4012.2	3325.8	2189.3	1027.8	640.2	576.4	518.9	480.1	452.6	441.4	438.9
22.5°	4302.3	3459.6	1969.2	753.9	575.1	511.4	455.1	416.4	390.1	380.1	375.1
25°	4584.9	3568.4	1661.7	610.1	513.9	450.1	396.3	360.1	336.3	326.3	325.1
27.5°	4848.7	3637.1	1305.3	538.9	460.1	395.1	346.3	313.8	293.8	286.3	285.1
30°	5086.2	3643.4	965.2	486.4	412.6	347.6	302.6	273.8	256.3	248.8	246.3
32.5°	5326.3	3590.9	702.7	438.9	368.8	306.3	262.6	240.1	227.6	221.3	221.3
35°	5552.6	3469.6	547.6	397.6	326.3	266.3	231.3	215.1	207.6	201.3	201.3
37.5°	5773.9	3295.8	465.1	361.3	286.3	232.6	203.8	193.8	187.5	181.3	181.3
40°	5999.0	3077.0	422.6	327.6	253.8	206.3	181.3	172.5	166.3	161.3	160.0
42.5°	6275.3	2824.4	395.1	296.3	225.1	182.5	160.0	150.0	145.0	140.0	137.5
45°	6595.4	2606.9	372.6	265.1	201.3	162.5	138.8	128.8	121.3	115.0	113.8
47.5°	7056.7	2449.4	342.6	231.3	178.8	141.3	120.0	108.8	97.5	91.3	90.0
50°	7645.6	2319.3	303.8	201.3	156.3	120.0	100.0	86.3	76.3	70.0	70.0
52.5°	7938.2	2149.3	268.8	175.0	131.3	101.3	81.3	65.0	60.0	53.8	53.8
55°	8055.7	2019.2	233.8	148.8	108.8	83.8	63.8	50.0	46.3	42.5	41.3
57.5°	8385.8	1981.7	203.8	126.3	90.0	66.3	48.8	37.5	35.0	30.0	30.0
60°	8917.2	2000.5	176.3	107.5	72.5	51.3	36.3	28.8	26.3	21.3	21.3
62.5°	9491.1	1976.7	148.8	92.5	56.3	37.5	25.0	21.3	21.3	12.5	11.3
65°	9601.1	1760.4	127.5	76.3	43.8	27.5	16.3	13.8	18.8	2.5	0.0
67.5°	8910.9	1365.3	110.0	58.8	32.5	21.3	12.5	6.3	16.3	0.0	0.0
70°	7125.5	867.7	88.8	42.5	25.0	17.5	10.0	2.5	12.5	0.0	0.0
72.5°	5038.7	503.9	70.0	30.0	21.3	13.8	7.5	0.0	7.5	0.0	0.0
75°	2548.1	268.8	43.8	22.5	16.3	10.0	5.0	0.0	1.3	0.0	0.0
77.5°	551.4	125.0	27.5	16.3	11.3	6.3	2.5	0.0	0.0	0.0	0.0
80°	120.0	55.0	17.5	10.0	6.3	3.8	0.0	0.0	0.0	0.0	0.0
82.5°	43.8	28.8	8.8	5.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	23.8	15.0	5.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	12.5	5.0	1.3	1.3	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)