

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: P324807

Luminaire Tested: **GAN-SA3C-740-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324807
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-SA3C-740-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 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: 17676 lumens
Efficiency: N/A
Efficacy: 106.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

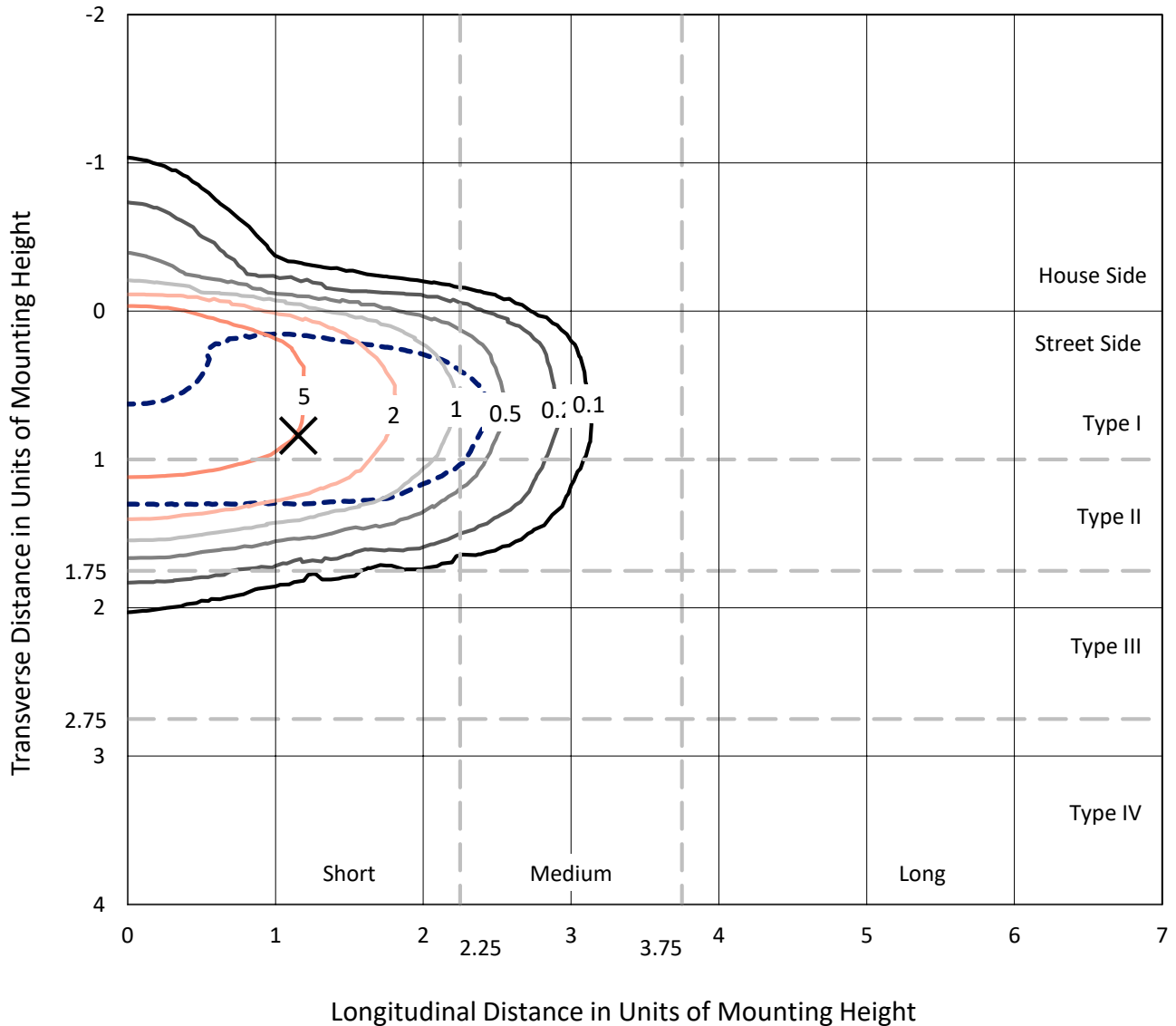
Input Watts (W): 166
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

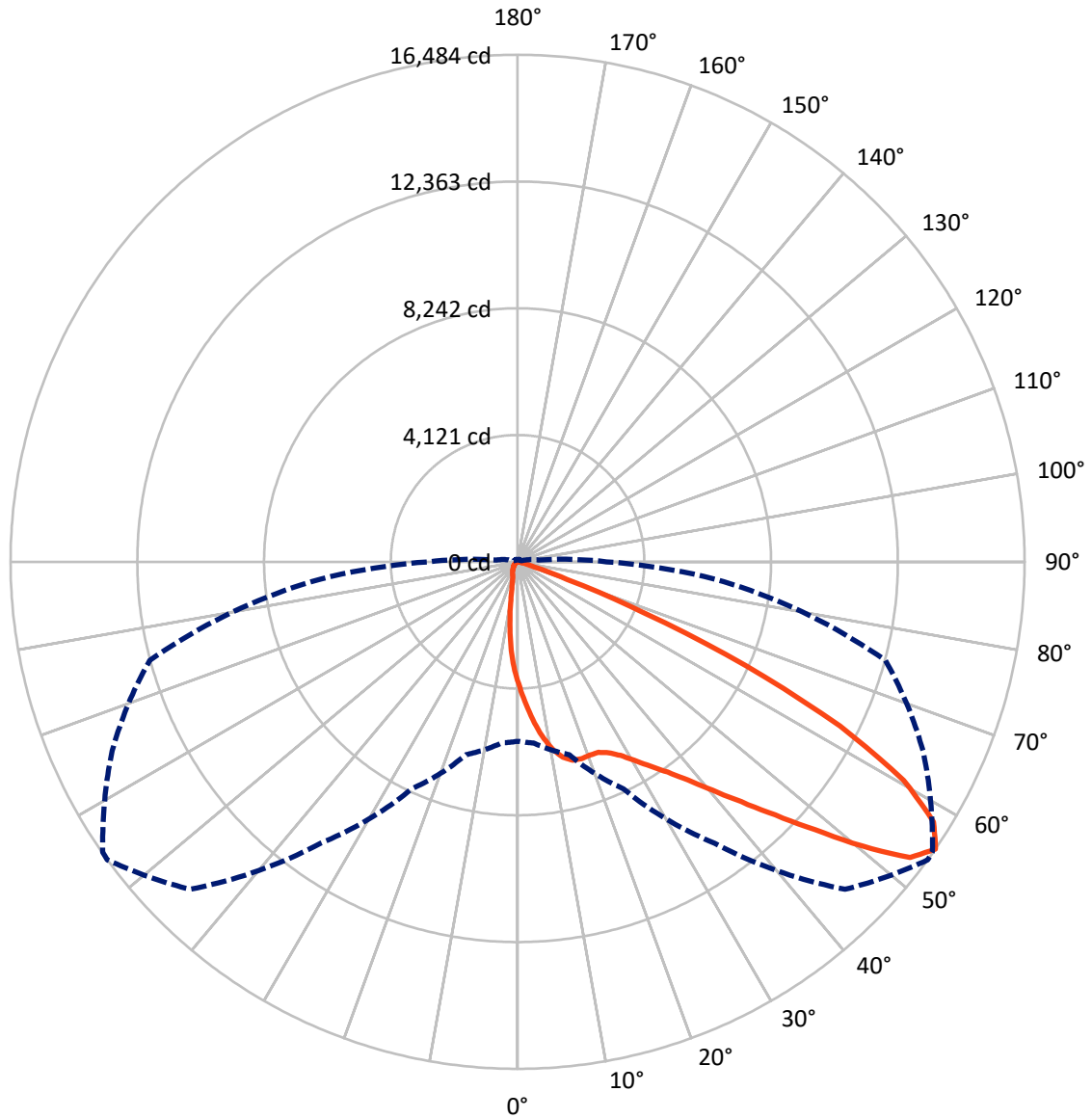
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	881.9	0.0	881.9
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	16794.1	0.0	16794.1
	% Fixture	95.0	0.0	95.0
Total	Lumens	17676.0	0.0	17676.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	364.6	2.1
10°-20°	999.8	5.7
20°-30°	1707.0	9.7
30°-40°	2739.4	15.5
40°-50°	4377.6	24.8
50°-60°	4690.7	26.5
60°-70°	2408.4	13.6
70°-80°	364.8	2.1
80°-90°	23.8	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°	17676.0	100.0
0°-180°	17676.0	100.0

Coefficient of Utilization



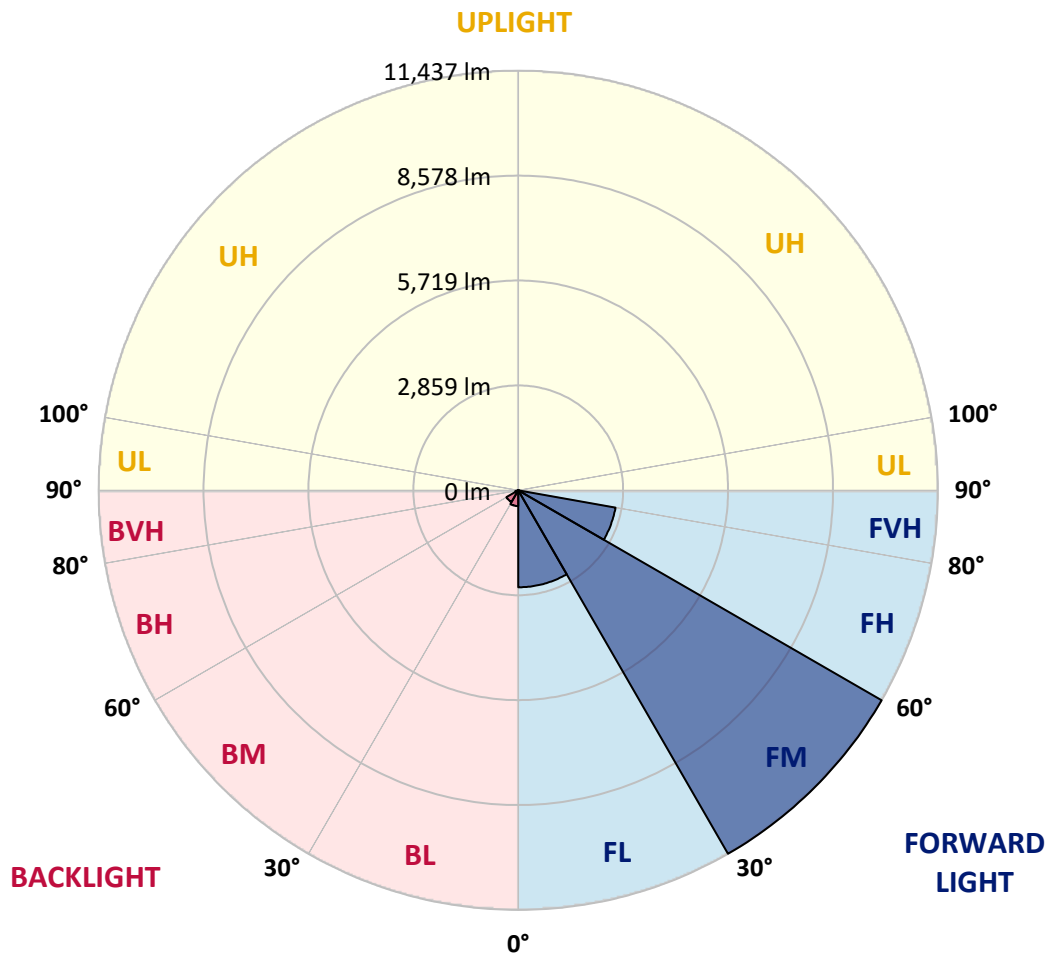
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2642.3	14.9			
FM (30°-60°)	11437.2	64.7			
FH (60°-80°)	2691.9	15.2			G2/5000
FVH (80°-90°)	22.8	0.1			G1/100
BL (0°-30°)	429.1	2.4	B1/500		
BM (30°-60°)	370.6	2.1	B1/1000		
BH (60°-80°)	81.3	0.5	B0/110		G0/110
BVH (80°-90°)	1.0	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	3958.7	3958.7	3958.7	3958.7	3958.7	3958.7	3958.7	3958.7	3958.7	3958.7	3958.7
2.5°	4967.9	4893.8	4896.1	4862.5	4739.6	4643.4	4543.4	4519.8	4364.1	4200.7	4043.4
5°	5826.6	5772.4	5759.4	5694.6	5523.6	5342.7	5148.8	5103.7	4799.2	4464.8	4135.8
7.5°	6267.8	6268.6	6257.9	6234.3	6127.4	5951.8	5715.2	5667.8	5253.4	4751.8	4232.0
10°	6139.6	6168.6	6228.1	6306.8	6388.4	6366.3	6188.4	6145.7	5695.3	5055.6	4338.9
12.5°	5840.4	5844.2	5910.6	6039.6	6274.7	6515.9	6519.0	6504.5	6117.5	5373.2	4456.4
15°	5691.5	5706.0	5730.4	5813.6	6036.5	6422.8	6699.1	6719.7	6504.5	5710.6	4581.6
17.5°	5789.2	5809.8	5789.2	5799.1	5928.1	6275.5	6730.4	6783.1	6842.6	6044.2	4699.9
20°	6054.1	6073.2	6036.5	5996.1	6021.3	6232.7	6708.3	6779.3	7107.5	6340.4	4799.2
22.5°	6411.3	6419.0	6363.3	6296.8	6278.5	6377.8	6726.6	6799.9	7319.7	6608.3	4861.8
25°	6804.5	6811.3	6741.9	6665.5	6622.0	6662.5	6877.0	6931.9	7506.7	6864.0	4897.6
27.5°	7232.7	7238.8	7151.8	7057.9	7007.5	7009.0	7125.1	7183.9	7706.0	7155.6	4926.6
30°	7685.4	7682.3	7602.2	7471.6	7407.5	7406.0	7482.3	7541.9	7994.5	7529.6	4966.3
32.5°	8193.8	8187.7	8073.9	7912.1	7839.6	7850.3	7918.2	7952.5	8352.5	7928.1	5037.3
35°	8863.2	8845.7	8673.9	8473.1	8339.6	8335.7	8393.0	8420.5	8809.0	8410.6	5155.6
37.5°	9731.9	9715.9	9483.1	9191.5	9003.7	8933.4	9001.4	9036.5	9460.2	9029.6	5345.7
40°	10588.4	10572.3	10434.2	10167.0	9877.7	9709.0	9762.4	9799.8	10273.1	9780.8	5585.4
42.5°	11179.2	11192.9	11241.0	11263.2	10992.2	10638.0	10662.4	10701.4	11127.3	10583.8	5859.4
45°	11334.9	11364.7	11636.5	12170.0	12271.6	11995.2	11739.5	11760.9	11995.2	11386.8	6133.5
47.5°	10867.0	10922.0	11446.4	12438.7	13298.3	13493.7	13009.7	12981.5	12828.0	12036.4	6328.1
50°	9803.7	9854.0	10533.4	12001.3	13609.7	14924.2	14531.8	14448.6	13558.6	12425.0	6396.8
52.5°	8264.8	8325.8	8877.7	10624.3	13022.7	15562.3	15973.0	15903.6	14094.4	12455.5	6408.3
55°	5836.5	5910.6	6494.6	8142.6	11162.4	15054.7	16483.7	16463.1	14539.5	12374.6	6432.7
57.5°	3280.1	3333.5	3963.3	5219.8	8175.4	13112.8	15950.1	16086.8	14808.2	12234.2	6469.4
60°	1456.5	1471.0	1796.9	2598.4	4786.2	10021.2	14422.7	14653.2	14577.6	12046.4	6531.2
62.5°	807.6	795.4	795.4	1080.1	2080.1	6203.7	11760.9	12141.8	13593.7	11824.2	6534.2
65°	632.8	621.4	588.5	593.1	792.4	2753.4	8144.1	8821.2	11725.0	11173.1	6314.4
67.5°	536.6	526.7	493.9	480.9	492.4	908.4	4474.7	5177.8	8896.8	9480.8	5469.4
70°	453.4	446.6	429.8	413.7	384.7	448.8	1712.2	2190.0	5482.4	6306.8	3733.5
72.5°	364.9	361.8	367.9	354.2	319.1	299.2	585.5	709.1	2462.6	2814.5	1538.1
75°	314.5	313.0	316.0	302.3	262.6	208.4	297.7	325.2	694.6	688.5	311.4
77.5°	204.6	206.9	261.8	255.7	226.0	138.9	154.2	166.4	210.7	158.0	94.7
80°	130.5	129.0	132.8	212.2	203.1	106.1	77.1	80.9	101.5	77.9	45.8
82.5°	79.4	77.9	87.0	99.2	102.3	74.0	47.3	48.1	63.4	50.4	24.4
85°	6.9	9.2	52.7	48.9	35.1	22.9	22.9	24.4	33.6	29.8	13.7
87.5°	0.0	0.0	9.2	13.7	7.6	8.4	8.4	9.2	13.0	13.0	6.9
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°	3958.7	3958.7	3958.7	3958.7	3958.7	3958.7	3958.7	3958.7	3958.7	3958.7	3958.7
2.5°	3961.8	3882.4	3722.1	3567.9	3437.3	3311.4	3167.9	3025.9	2959.5	2932.8	2905.3
5°	3968.6	3805.3	3474.8	3141.9	2796.9	2486.2	2221.3	1949.6	1813.7	1754.2	1726.7
7.5°	3977.8	3728.9	3194.6	2635.8	2080.1	1658.8	1290.8	1054.2	951.9	935.9	896.2
10°	3979.3	3636.6	2869.4	2077.1	1394.6	1000.0	769.5	647.3	602.3	594.6	581.7
12.5°	3982.4	3527.4	2508.4	1538.1	929.8	668.7	556.5	516.0	503.8	503.0	503.0
15°	3991.5	3412.9	2133.6	1108.4	667.9	529.8	488.5	472.5	467.9	470.2	469.5
17.5°	3991.5	3277.8	1765.6	825.9	539.7	476.3	453.4	442.7	441.2	443.5	444.3
20°	3962.5	3113.7	1428.2	642.7	478.6	442.0	421.4	411.4	407.6	409.2	409.9
22.5°	3893.1	2912.2	1153.4	532.1	438.2	410.7	388.5	373.3	367.2	367.9	367.9
25°	3784.7	2673.2	902.3	460.3	405.3	377.1	351.1	333.6	329.8	329.0	330.5
27.5°	3645.7	2409.1	718.3	405.3	366.4	339.7	313.7	299.2	296.2	296.9	297.7
30°	3509.1	2135.1	566.4	358.8	322.9	297.7	277.9	271.0	271.0	273.3	274.0
32.5°	3383.9	1871.7	448.1	318.3	284.0	261.1	249.6	248.9	252.7	254.2	255.0
35°	3276.3	1628.2	371.0	287.0	253.4	233.6	229.8	232.8	237.4	240.5	241.2
37.5°	3199.9	1410.7	324.4	261.1	229.8	213.7	213.0	219.1	225.2	232.1	233.6
40°	3167.9	1226.7	292.4	238.2	210.7	198.5	196.2	204.6	216.0	226.0	227.5
42.5°	3141.2	1076.3	264.9	216.0	195.4	177.9	177.1	187.8	201.5	211.4	213.7
45°	3118.3	955.7	239.7	192.4	175.6	152.7	155.0	168.7	179.4	190.1	192.4
47.5°	3070.9	856.5	212.2	167.2	145.0	130.5	135.1	147.3	155.7	171.8	174.0
50°	2986.2	775.6	184.0	136.6	118.3	113.0	119.8	128.2	138.9	152.7	154.2
52.5°	2929.0	714.5	159.5	114.5	97.7	99.2	106.1	109.2	115.3	120.6	119.1
55°	2896.1	680.9	139.7	99.2	83.2	87.8	89.3	85.5	82.4	77.1	74.8
57.5°	2892.3	650.4	124.4	86.3	73.3	75.6	70.2	57.3	46.6	40.5	38.9
60°	2886.2	613.0	112.2	72.5	64.9	61.8	50.4	31.3	22.1	20.6	20.6
62.5°	2819.8	555.0	103.1	61.1	55.0	46.6	29.0	14.5	12.2	13.0	13.0
65°	2608.4	474.0	93.9	49.6	43.5	33.6	14.5	8.4	4.6	5.3	5.3
67.5°	2217.5	377.9	84.0	38.2	32.8	21.4	8.4	3.8	0.0	0.0	0.0
70°	1484.7	234.3	71.0	26.7	21.4	13.0	6.1	0.8	0.0	0.0	0.0
72.5°	569.5	126.7	57.3	16.0	13.7	9.2	3.8	0.0	0.0	0.0	0.0
75°	128.2	83.2	39.7	11.5	9.9	6.1	1.5	0.0	0.0	0.0	0.0
77.5°	48.9	60.3	22.9	7.6	6.9	3.8	0.0	0.0	0.0	0.0	0.0
80°	23.7	35.9	10.7	4.6	3.8	1.5	0.0	0.0	0.0	0.0	0.0
82.5°	12.2	13.7	4.6	2.3	1.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	6.9	6.9	2.3	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.8	2.3	0.8	0.8	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)