

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: P458909

Luminaire Tested: **GLAN-SA4B-735-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458909
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-7)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA4B-735-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 800mA 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: 16788 lumens
Efficiency: N/A
Efficacy: 102.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

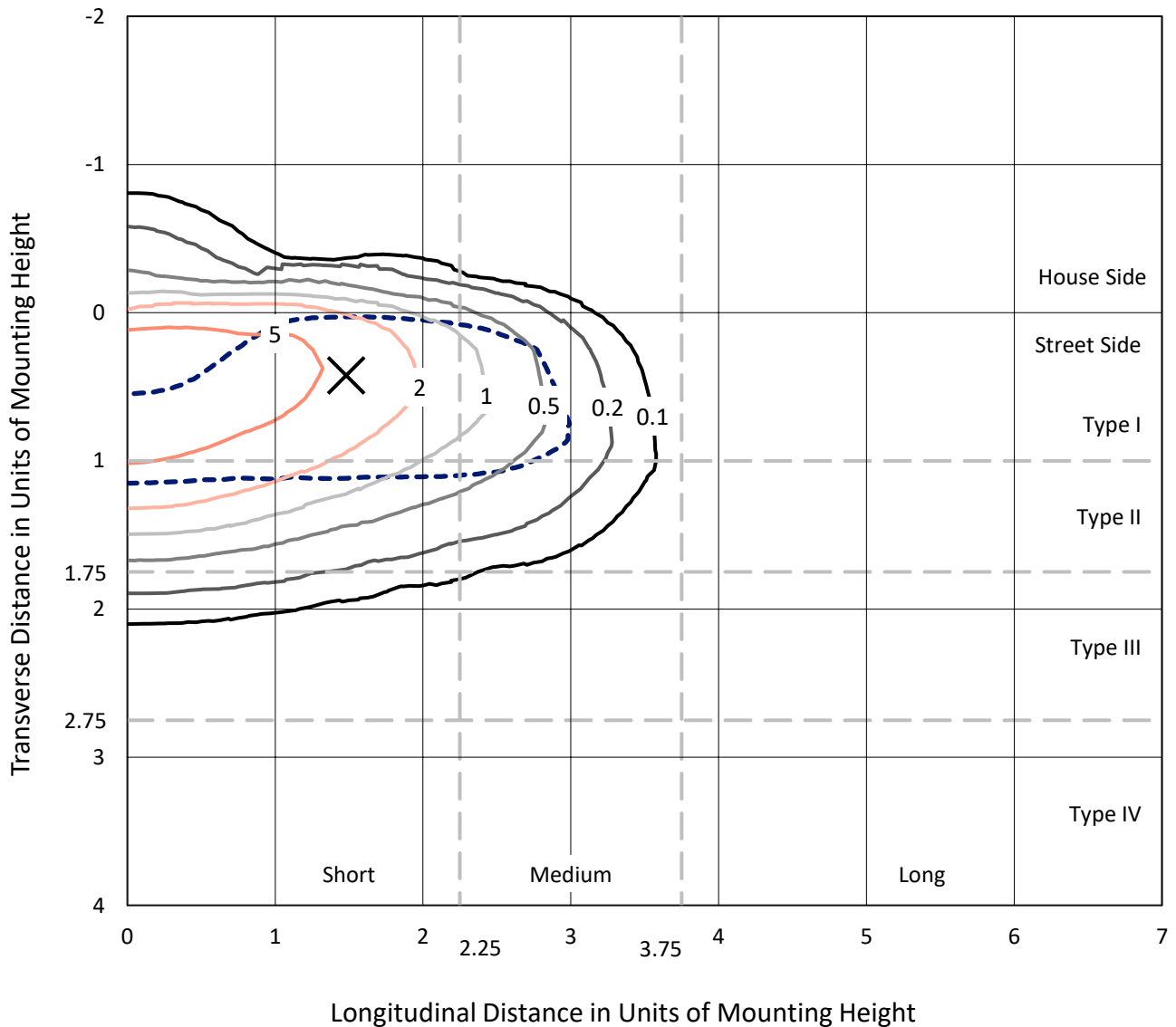
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

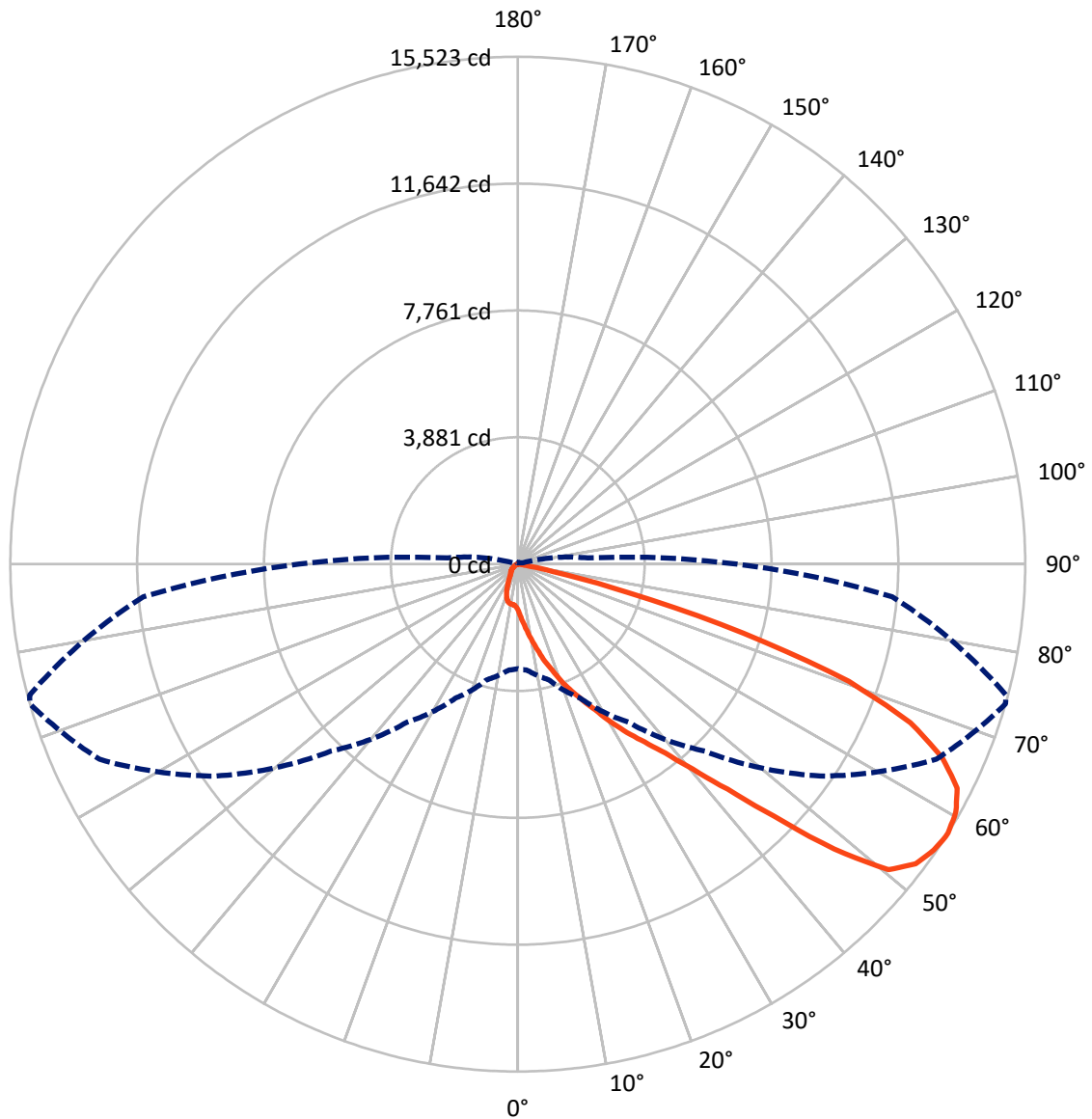
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	968.3	0.0	968.3
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	15819.7	0.0	15819.7
	% Fixture	94.2	0.0	94.2
Total	Lumens	16788.0	0.0	16788.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.7	1.0
10°-20°	668.9	4.0
20°-30°	1431.3	8.5
30°-40°	2630.7	15.7
40°-50°	4032.9	24.0
50°-60°	4266.3	25.4
60°-70°	2786.0	16.6
70°-80°	761.2	4.5
80°-90°	41.0	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°	16788.0	100.0
0°-180°	16788.0	100.0

Coefficient of Utilization

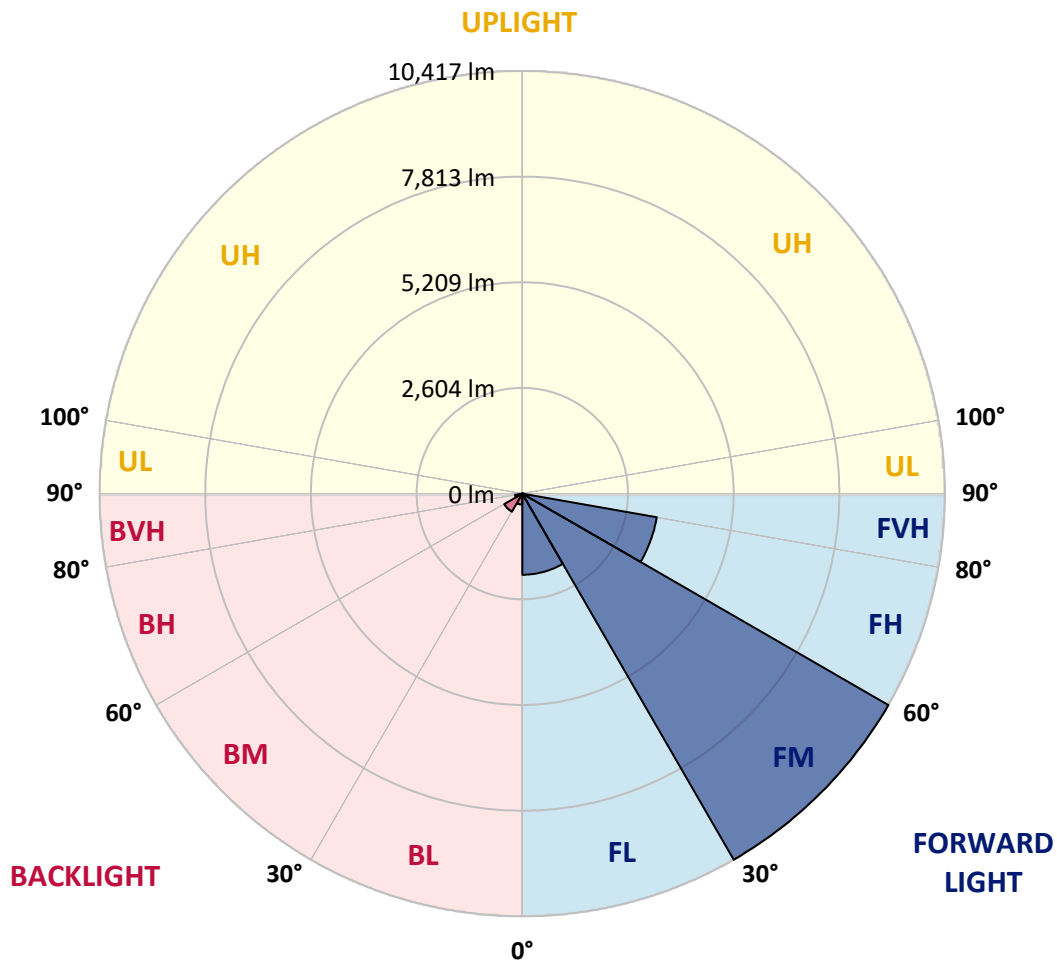


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1999.4	11.9			
FM (30°-60°)	10417.3	62.1			
FH (60°-80°)	3365.4	20.0			G2/5000
FVH (80°-90°)	37.6	0.2			G1/100
BL (0°-30°)	270.5	1.6	B1/500		
BM (30°-60°)	512.6	3.1	B1/1000		
BH (60°-80°)	181.8	1.1	B1/500		G1/500
BVH (80°-90°)	3.4	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°	55°	65°	74°	75°	85°
0°	1406.0	1406.0	1406.0	1406.0	1406.0	1406.0	1406.0	1406.0	1406.0	1406.0	1406.0
2.5°	2057.4	2038.8	2001.7	1989.0	1934.5	1849.9	1775.7	1676.0	1597.2	1589.1	1494.1
5°	2755.2	2713.4	2696.0	2612.6	2481.6	2358.7	2147.8	1987.8	1803.5	1789.6	1598.4
7.5°	3427.4	3369.5	3352.1	3273.3	3120.3	2926.7	2653.2	2362.2	2070.1	2043.5	1738.6
10°	3914.2	3922.4	3891.1	3838.9	3714.9	3517.8	3180.5	2783.0	2366.9	2333.2	1896.3
12.5°	4263.1	4262.0	4267.8	4266.6	4200.5	4051.0	3696.3	3238.5	2693.7	2627.7	2077.1
15°	4490.3	4493.8	4511.2	4571.4	4578.4	4485.7	4190.1	3674.3	3072.7	2990.4	2273.0
17.5°	4719.8	4744.1	4772.0	4828.8	4879.8	4842.7	4634.0	4128.7	3415.8	3354.4	2482.8
20°	5098.8	5132.4	5116.2	5151.0	5177.6	5181.1	5020.0	4548.3	3831.9	3728.8	2722.7
22.5°	5705.0	5703.9	5662.1	5599.6	5547.4	5545.1	5399.0	4979.4	4209.8	4110.1	2963.8
25°	6471.2	6474.7	6393.5	6215.0	6085.2	5926.4	5758.3	5357.3	4614.3	4491.5	3217.6
27.5°	7349.8	7327.8	7204.9	6959.2	6701.8	6430.6	6188.4	5796.6	5043.2	4941.2	3508.6
30°	8139.1	8131.0	7987.3	7687.1	7348.6	7076.2	6725.0	6347.2	5598.4	5473.2	3834.3
32.5°	8874.0	8885.6	8686.2	8375.6	8048.7	7734.6	7363.7	6873.4	6143.2	5965.8	4188.9
35°	9447.7	9459.3	9253.0	8994.5	8658.4	8397.6	8044.1	7434.4	6681.0	6531.5	4596.9
37.5°	9753.7	9768.8	9649.4	9454.7	9244.9	9113.9	8784.7	8156.5	7334.7	7244.3	5079.1
40°	9811.7	9829.1	9776.9	9724.7	9713.2	9807.0	9710.8	9007.3	8241.1	8099.7	5797.8
42.5°	9637.8	9661.0	9684.2	9800.1	10036.5	10380.8	10715.8	10161.7	9408.3	9218.2	6676.3
45°	9181.1	9178.8	9270.4	9570.6	10100.3	10835.1	11765.9	11607.1	10998.6	10772.6	7917.7
47.5°	8399.9	8388.3	8586.5	9014.2	9839.5	10918.6	12622.5	13362.0	13028.1	12819.5	9251.8
50°	7209.5	7266.3	7578.1	8175.0	9191.6	10665.9	12886.7	14512.9	14693.8	14472.4	10329.8
52.5°	5815.1	5812.8	6302.0	7112.2	8231.8	10109.6	12702.4	14721.6	15235.0	15065.8	10860.6
55°	4303.7	4333.8	4842.7	5659.8	6985.8	9094.2	12100.9	14507.1	15441.4	15322.0	11210.7
57°	3201.4	3254.7	3662.7	4527.4	5900.9	8089.3	11299.9	14123.5	15522.5	15457.6	11501.6
57.5°	2988.1	2990.4	3388.0	4173.9	5583.3	7703.3	11070.4	13963.5	15520.2	15484.2	11549.1
60°	1839.5	1897.4	2172.1	2821.2	4086.9	6012.2	9532.3	13044.4	15399.6	15451.8	11752.0
62.5°	1101.1	1125.5	1304.0	1700.4	2634.6	4388.3	7800.7	11867.9	15085.5	15244.3	11738.1
65°	708.2	714.0	795.1	1029.3	1647.1	2966.1	6011.0	10313.6	14273.0	14565.1	11279.1
67.5°	547.1	556.4	588.8	675.7	955.1	1847.6	4251.5	8654.9	12958.6	13335.3	10166.4
70°	485.7	490.3	501.9	529.7	631.7	1043.2	2645.0	6761.0	10745.9	10852.5	7956.0
72.5°	396.4	409.2	445.1	454.4	500.7	651.4	1472.0	4537.8	7220.0	7246.6	4450.9
75°	307.2	309.5	362.8	389.5	421.9	448.6	657.2	2288.0	3468.0	3282.5	1715.4
77.5°	229.5	239.9	264.3	297.9	344.2	321.1	294.4	862.4	1076.8	1057.1	498.4
80°	147.2	153.0	184.3	223.7	267.7	209.8	165.7	252.7	236.5	243.4	119.4
82.5°	74.2	75.3	118.2	182.0	170.4	105.5	104.3	103.2	88.1	86.9	55.6
85°	8.1	17.4	76.5	104.3	76.5	34.8	48.7	47.5	46.4	47.5	32.5
87.5°	1.2	1.2	12.7	15.1	10.4	11.6	13.9	15.1	18.5	17.4	13.9
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°	1406.0	1406.0	1406.0	1406.0	1406.0	1406.0	1406.0	1406.0	1406.0	1406.0	1406.0
2.5°	1447.7	1401.3	1315.6	1233.3	1171.8	1132.4	1081.4	1062.9	1036.2	1032.7	1020.0
5°	1510.3	1422.2	1272.7	1154.5	1059.4	987.5	925.0	872.8	831.1	821.8	826.4
7.5°	1599.5	1468.6	1259.9	1098.8	966.7	843.8	744.1	682.7	638.7	622.4	624.7
10°	1700.4	1530.0	1257.6	1039.7	838.0	687.3	578.4	523.9	498.4	489.1	478.7
12.5°	1819.8	1600.7	1251.8	948.1	696.6	548.2	470.6	438.1	413.8	406.8	406.8
15°	1954.2	1676.0	1224.0	834.5	565.6	453.2	401.0	375.5	367.4	360.5	360.5
17.5°	2094.5	1750.2	1166.0	694.3	469.4	388.3	355.8	340.8	329.2	321.1	321.1
20°	2254.4	1823.2	1073.3	570.3	396.4	346.6	321.1	303.7	294.4	287.5	285.1
22.5°	2406.3	1882.4	955.1	468.3	345.4	311.8	288.6	270.1	260.8	257.3	257.3
25°	2563.9	1918.3	812.5	387.1	315.3	282.8	257.3	242.2	234.1	231.8	230.7
27.5°	2716.9	1939.2	687.3	338.5	287.5	256.2	231.8	220.2	212.1	209.8	211.0
30°	2902.4	1942.6	565.6	303.7	263.1	230.7	208.6	198.2	193.6	191.2	190.1
32.5°	3090.1	1938.0	475.2	282.8	239.9	208.6	190.1	182.0	178.5	175.0	175.0
35°	3301.1	1913.7	404.5	262.0	217.9	190.1	173.9	166.9	162.3	158.8	157.6
37.5°	3563.0	1900.9	364.0	238.8	198.2	172.7	157.6	150.7	147.2	142.6	141.4
40°	3975.7	1957.7	351.2	217.9	178.5	156.5	142.6	134.5	129.8	125.2	124.0
42.5°	4490.3	2057.4	330.3	197.0	161.1	141.4	127.5	118.2	110.1	104.3	102.0
45°	5156.8	2188.4	297.9	175.0	146.0	125.2	112.4	100.8	90.4	85.8	84.6
47.5°	5855.7	2314.7	268.9	157.6	129.8	111.3	97.4	84.6	75.3	71.9	70.7
50°	6284.6	2340.2	250.4	137.9	113.6	96.2	82.3	70.7	64.9	61.4	61.4
52.5°	6480.5	2299.6	224.9	120.5	98.5	84.6	70.7	61.4	58.0	55.6	54.5
55°	6617.2	2237.0	191.2	104.3	84.6	71.9	62.6	55.6	51.0	48.7	47.5
57°	6697.2	2152.4	165.7	91.6	73.0	62.6	55.6	49.8	45.2	40.6	40.6
57.5°	6700.7	2120.0	158.8	90.4	69.5	60.3	54.5	48.7	42.9	38.2	37.1
60°	6597.5	1897.4	127.5	76.5	55.6	51.0	45.2	38.2	30.1	25.5	24.3
62.5°	6266.0	1614.6	105.5	64.9	45.2	39.4	32.5	29.0	20.9	15.1	15.1
65°	5764.1	1309.8	90.4	52.2	37.1	29.0	22.0	20.9	12.7	7.0	5.8
67.5°	5038.6	1020.0	76.5	42.9	31.3	20.9	15.1	13.9	7.0	2.3	0.0
70°	3838.9	695.5	63.7	34.8	23.2	15.1	10.4	8.1	4.6	1.2	0.0
72.5°	2212.7	382.5	53.3	26.7	17.4	11.6	8.1	4.6	4.6	0.0	0.0
75°	790.5	164.6	40.6	19.7	13.9	9.3	5.8	2.3	3.5	1.2	0.0
77.5°	251.5	88.1	26.7	15.1	11.6	7.0	4.6	2.3	2.3	1.2	0.0
80°	74.2	46.4	16.2	12.7	8.1	5.8	3.5	1.2	2.3	1.2	0.0
82.5°	40.6	23.2	12.7	9.3	8.1	4.6	3.5	1.2	1.2	1.2	0.0
85°	20.9	13.9	10.4	9.3	8.1	4.6	3.5	1.2	0.0	1.2	1.2
87.5°	11.6	10.4	10.4	9.3	8.1	5.8	3.5	1.2	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)