

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: P383174

Luminaire Tested: **GAN-SA5A-735-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383174
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5A-735-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15434.8 lumens
Efficiency: N/A
Efficacy: 95.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

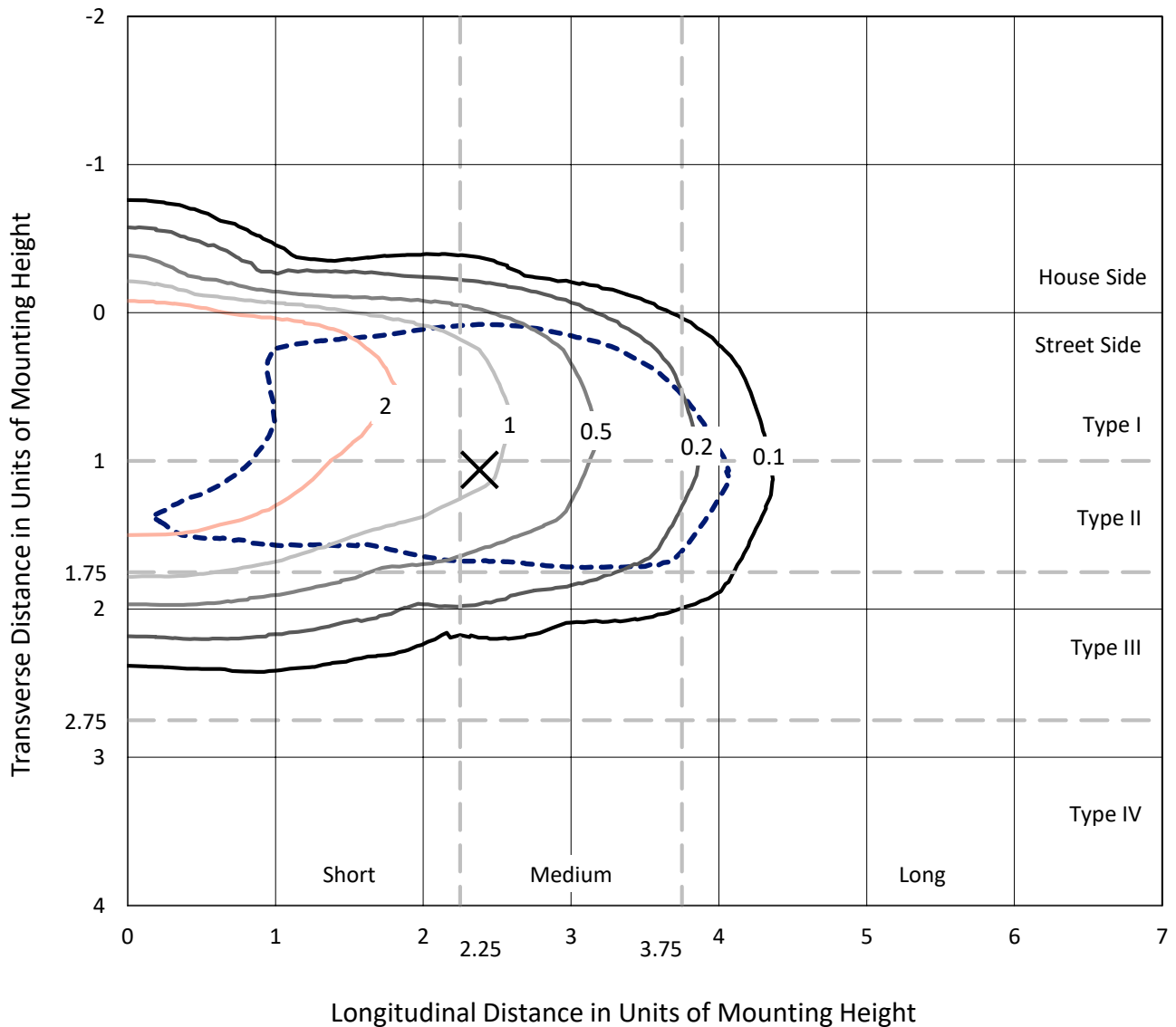
Input Watts (W): 162
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

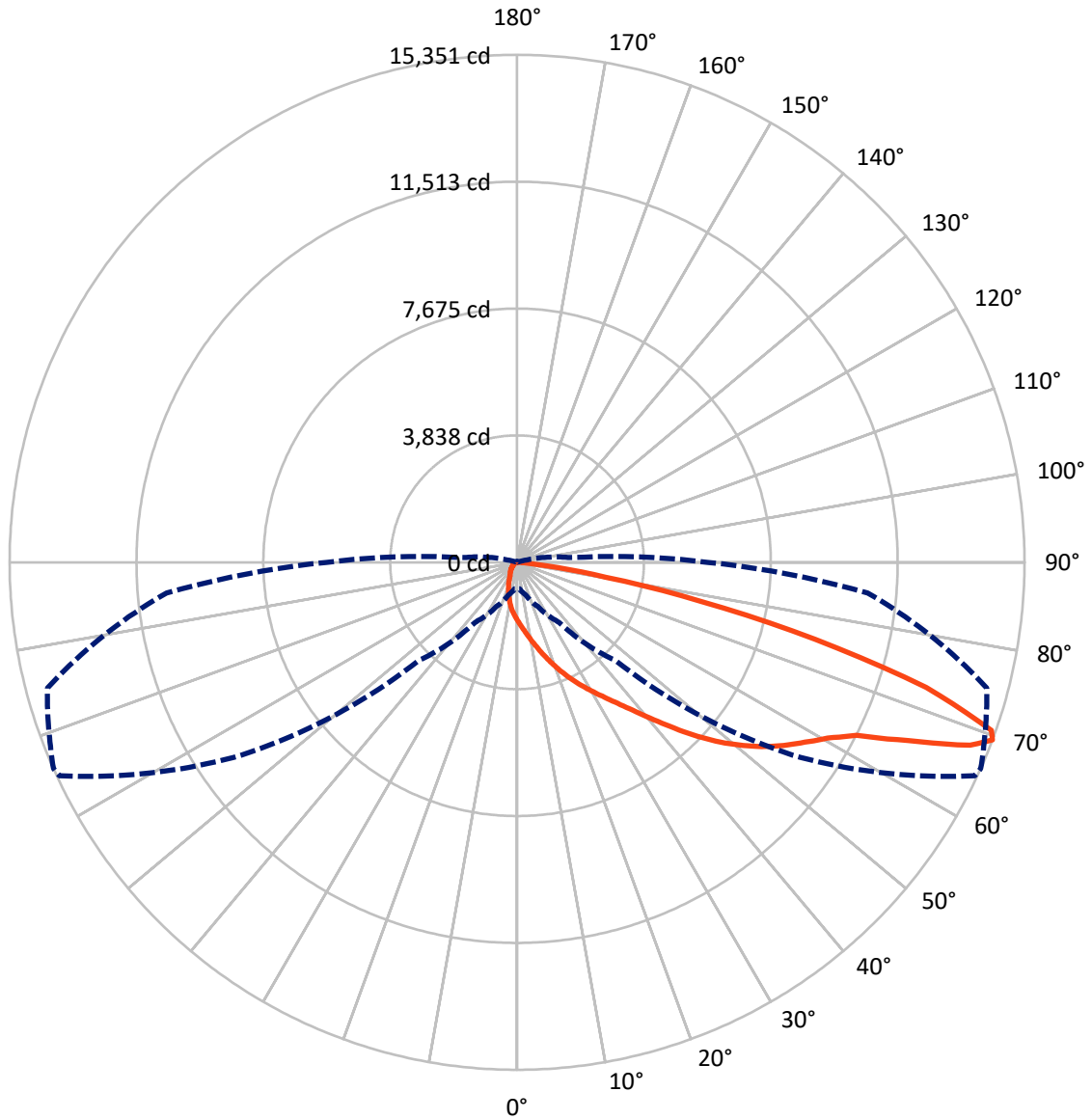
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	925.9	0.0	925.9
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	14508.9	0.0	14508.9
	% Fixture	94.0	0.0	94.0
Total	Lumens	15434.8	0.0	15434.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.8	1.1
10°-20°	505.3	3.3
20°-30°	880.0	5.7
30°-40°	1543.9	10.0
40°-50°	2584.3	16.7
50°-60°	3798.6	24.6
60°-70°	3900.2	25.3
70°-80°	1925.4	12.5
80°-90°	127.3	0.8
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°	15434.8	100.0
0°-180°	15434.8	100.0

Coefficient of Utilization

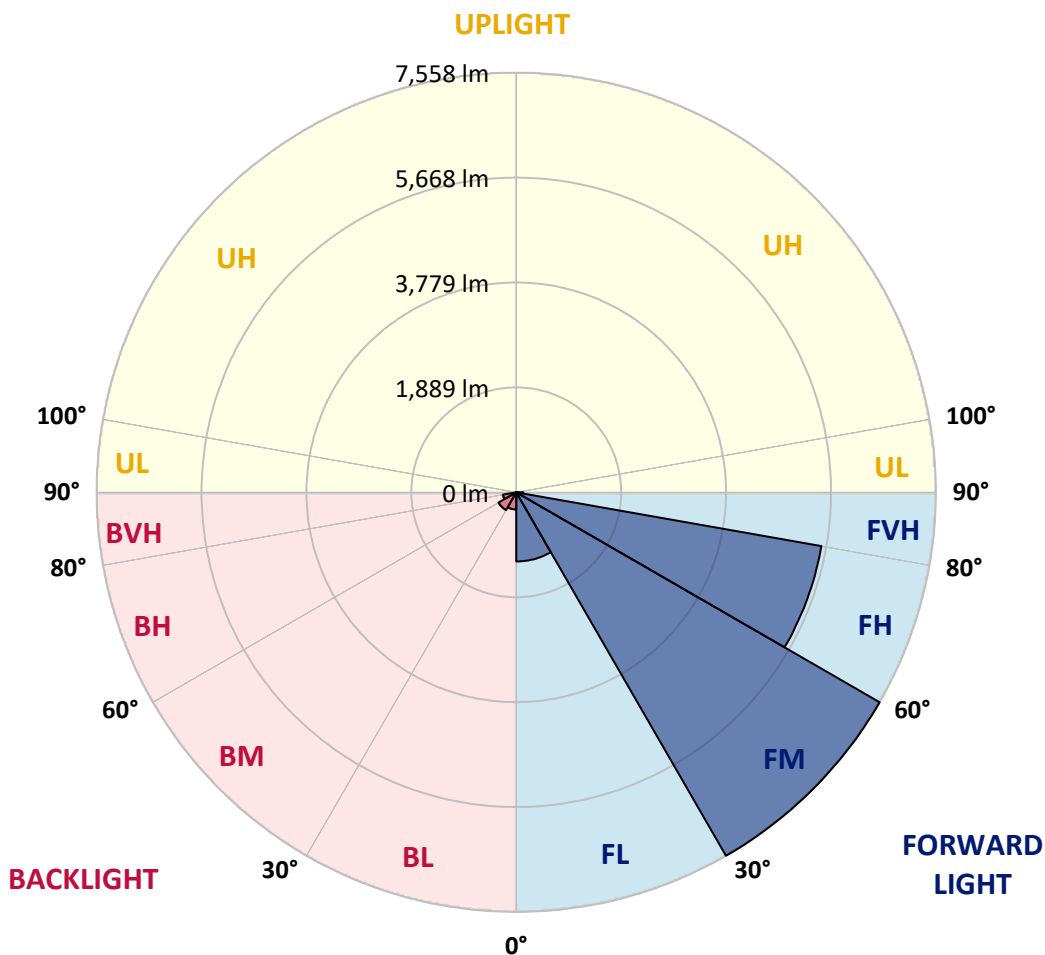


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1245.4	8.1			
FM (30°-60°)	7557.6	49.0			
FH (60°-80°)	5581.6	36.2			G3/7500
FVH (80°-90°)	124.2	0.8			G2/225
BL (0°-30°)	309.6	2.0	B1/500		
BM (30°-60°)	369.2	2.4	B1/1000		
BH (60°-80°)	244.0	1.6	B1/500		G1/500
BVH (80°-90°)	3.1	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°	66°	75°	85°
0°	1756.5	1756.5	1756.5	1756.5	1756.5	1756.5	1756.5	1756.5	1756.5	1756.5	1756.5
2.5°	2067.4	2058.5	2054.9	2038.8	2010.9	1989.7	1948.6	1900.9	1892.2	1846.0	1789.5
5°	2335.7	2328.4	2323.2	2300.5	2272.0	2218.4	2143.6	2054.9	2038.0	1950.1	1837.2
7.5°	2522.6	2535.9	2535.9	2521.1	2485.3	2444.9	2353.3	2232.4	2211.0	2076.1	1900.9
10°	2631.9	2648.0	2660.5	2672.9	2667.8	2651.7	2565.1	2428.8	2403.1	2224.3	1975.0
12.5°	2642.1	2658.3	2693.5	2745.5	2796.0	2832.7	2778.5	2646.5	2617.2	2395.8	2063.0
15°	2585.0	2601.8	2656.0	2757.2	2879.7	2986.7	3004.2	2887.7	2857.7	2600.3	2172.9
17.5°	2485.3	2496.3	2574.0	2714.0	2906.1	3102.5	3208.8	3146.5	3118.6	2834.2	2295.3
20°	2411.2	2419.2	2487.4	2637.8	2889.9	3175.1	3402.4	3421.4	3392.1	3084.9	2428.1
22.5°	2538.0	2552.7	2554.9	2626.0	2846.0	3211.0	3572.5	3691.9	3669.9	3351.1	2558.6
25°	2884.8	2901.7	2846.0	2801.9	2883.3	3227.2	3718.4	3969.0	3951.4	3637.7	2689.8
27.5°	3343.0	3360.6	3288.7	3157.5	3079.0	3288.0	3848.1	4250.6	4249.8	3941.2	2831.3
30°	3793.1	3810.7	3737.4	3606.2	3425.9	3460.2	3960.3	4545.3	4549.7	4254.2	2981.5
32.5°	4265.3	4287.3	4211.7	4043.1	3854.7	3758.0	4117.9	4841.4	4866.4	4617.1	3150.9
35°	4801.8	4804.8	4698.5	4521.8	4304.8	4156.0	4370.8	5173.5	5233.0	5066.5	3365.7
37.5°	5328.3	5349.5	5262.2	4983.7	4784.2	4615.6	4746.9	5588.5	5672.8	5615.6	3646.4
40°	5718.2	5763.0	5750.5	5449.9	5260.8	5140.6	5213.9	6081.9	6188.9	6254.9	4000.6
42.5°	5963.1	5996.8	6054.0	5872.9	5701.4	5721.2	5765.2	6656.7	6788.6	6983.6	4407.4
45°	6243.9	6260.0	6307.7	6227.8	6112.0	6311.3	6350.2	7304.0	7442.5	7767.3	4859.0
47.5°	6587.0	6625.1	6638.3	6565.0	6512.2	6833.3	6913.9	7892.6	8087.0	8606.8	5337.0
50°	7024.0	7034.2	7056.9	7009.2	6956.5	7282.0	7419.8	8510.7	8687.3	9449.1	5808.4
52.5°	7451.4	7488.0	7567.1	7537.1	7515.8	7663.9	7870.6	9067.9	9265.1	10151.4	6279.1
55°	7574.5	7606.0	7879.5	8066.4	8239.4	8134.6	8301.8	9567.1	9780.4	10778.9	6732.1
57.5°	7082.6	7146.4	7620.0	8106.7	8824.5	8866.2	8894.0	10079.5	10270.9	11259.8	7203.6
60°	5839.2	5851.7	6628.8	7463.7	8727.7	9504.8	9759.2	10630.1	10790.7	11707.8	7768.0
62.5°	3713.9	3840.8	4693.3	5872.2	7704.3	9412.4	10805.3	11462.9	11521.6	12245.1	8577.4
65°	1769.0	1851.1	2465.4	3628.2	5580.4	8229.9	11527.4	12969.5	12995.8	13310.3	9658.8
67.5°	979.4	1019.0	1311.5	1953.0	3262.4	5820.1	11235.7	14753.9	14778.7	14398.3	10607.3
69°	766.1	799.8	1030.0	1472.1	2211.8	4183.1	10167.5	15276.5	15350.6	14709.9	10641.1
70°	650.3	683.3	887.0	1243.3	1778.5	3232.3	9050.3	15146.8	15225.2	14680.5	10389.6
72.5°	398.1	417.1	590.9	875.4	1192.0	1626.0	5581.2	12809.6	12942.4	13466.5	8929.3
75°	268.3	278.6	369.5	604.1	852.6	837.2	2899.4	9029.0	9316.3	10475.4	6595.1
77.5°	192.1	201.6	247.8	390.8	597.5	552.8	1313.0	5611.2	5672.8	6282.7	3596.6
80°	109.3	118.0	175.2	232.4	405.4	368.8	521.9	2680.2	2711.1	2694.2	1200.9
82.5°	57.2	64.6	96.0	153.2	260.3	241.2	217.0	897.4	901.7	750.0	263.2
85°	11.0	13.2	47.7	104.8	134.1	104.8	88.7	210.4	214.8	189.8	65.2
87.5°	0.0	0.7	19.1	23.5	26.4	27.1	28.6	41.1	44.0	59.3	17.6
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°	1756.5	1756.5	1756.5	1756.5	1756.5	1756.5	1756.5	1756.5	1756.5	1756.5	1756.5
2.5°	1764.6	1738.2	1687.6	1629.0	1583.5	1538.8	1503.6	1466.9	1453.8	1447.2	1446.4
5°	1782.1	1726.4	1619.4	1509.5	1419.3	1334.3	1273.4	1215.5	1188.4	1175.9	1170.8
7.5°	1811.5	1722.1	1549.8	1382.0	1252.2	1145.9	1061.5	998.5	966.9	953.8	948.7
10°	1846.0	1716.2	1468.4	1247.1	1081.3	971.3	887.8	825.4	791.1	776.4	769.0
12.5°	1886.3	1705.9	1374.6	1110.7	935.5	825.4	724.3	647.3	607.7	590.9	582.8
15°	1936.1	1695.7	1276.3	982.4	807.2	672.9	562.3	510.2	502.2	499.2	500.0
17.5°	1985.2	1679.6	1169.3	855.5	672.3	525.7	469.2	466.2	467.7	467.7	467.7
20°	2029.3	1642.9	1052.7	747.0	543.9	443.5	431.8	426.6	423.0	420.0	416.4
22.5°	2063.8	1593.8	940.6	639.2	444.3	406.2	387.8	371.7	358.5	349.7	345.3
25°	2087.1	1528.6	837.9	535.9	399.5	369.5	336.5	309.4	288.9	276.4	271.3
27.5°	2104.7	1458.2	746.3	448.6	368.8	327.0	283.7	251.4	230.2	219.2	214.8
30°	2117.2	1378.2	665.7	394.4	334.3	282.3	236.1	204.6	189.1	183.2	180.3
32.5°	2129.0	1289.5	589.4	368.8	302.0	241.2	198.0	173.7	164.2	156.9	154.7
35°	2158.3	1207.5	516.8	341.6	269.0	206.0	170.1	152.5	143.0	138.5	137.1
37.5°	2227.9	1146.5	447.2	313.7	236.1	178.1	148.9	136.4	127.5	123.2	121.7
40°	2340.0	1115.8	388.5	283.7	203.8	156.9	134.9	123.2	113.6	107.0	105.5
42.5°	2505.0	1120.2	347.5	253.7	178.1	140.0	121.7	107.8	97.5	91.7	90.2
45°	2705.2	1152.4	318.9	224.3	156.9	126.8	107.0	92.4	82.8	77.7	76.2
47.5°	2922.2	1204.5	295.5	198.0	140.0	114.4	92.4	76.9	68.9	64.6	63.8
50°	3150.9	1255.1	271.3	172.2	125.4	101.9	77.7	63.8	57.2	53.5	52.1
52.5°	3382.5	1313.8	249.3	148.9	112.9	87.3	64.6	52.1	46.9	44.0	42.5
55°	3631.8	1357.7	228.0	130.5	100.4	74.1	53.5	43.2	38.8	35.2	34.5
57.5°	3925.1	1425.9	206.0	112.9	85.8	61.6	44.0	34.5	30.8	27.1	26.4
60°	4321.0	1505.8	182.6	99.7	70.4	50.6	36.0	27.9	23.5	20.5	19.7
62.5°	4842.9	1594.5	153.2	87.3	57.2	41.1	28.6	22.0	16.9	13.2	13.2
65°	5504.9	1738.9	125.4	73.3	46.9	33.7	22.0	16.1	9.5	5.9	5.9
67.5°	5891.3	1763.9	101.2	60.1	38.1	28.6	18.4	11.0	2.9	0.7	0.0
69°	5767.4	1619.4	85.8	51.3	33.0	27.1	16.9	8.1	1.5	0.0	0.0
70°	5534.2	1480.9	75.5	45.5	30.1	25.6	16.1	5.9	1.5	0.0	0.0
72.5°	4573.2	1054.2	57.2	33.7	22.0	22.7	14.6	3.6	1.5	0.0	0.0
75°	3331.2	640.7	41.1	23.5	14.0	16.9	10.2	1.5	0.7	0.0	0.0
77.5°	1853.3	302.0	25.6	13.2	8.8	10.2	5.1	0.0	0.0	0.0	0.0
80°	601.9	82.1	11.7	7.4	5.1	5.9	2.2	0.0	0.0	0.0	0.0
82.5°	111.4	23.5	6.6	3.6	1.5	1.5	0.0	0.0	0.0	0.0	0.0
85°	24.2	9.5	3.6	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.1	2.9	0.7	0.0	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)