

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: P321927

Luminaire Tested: **GAN-SA3C-740-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321927
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-SA3C-740-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 1050mA 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: 15362 lumens
Efficiency: N/A
Efficacy: 92.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

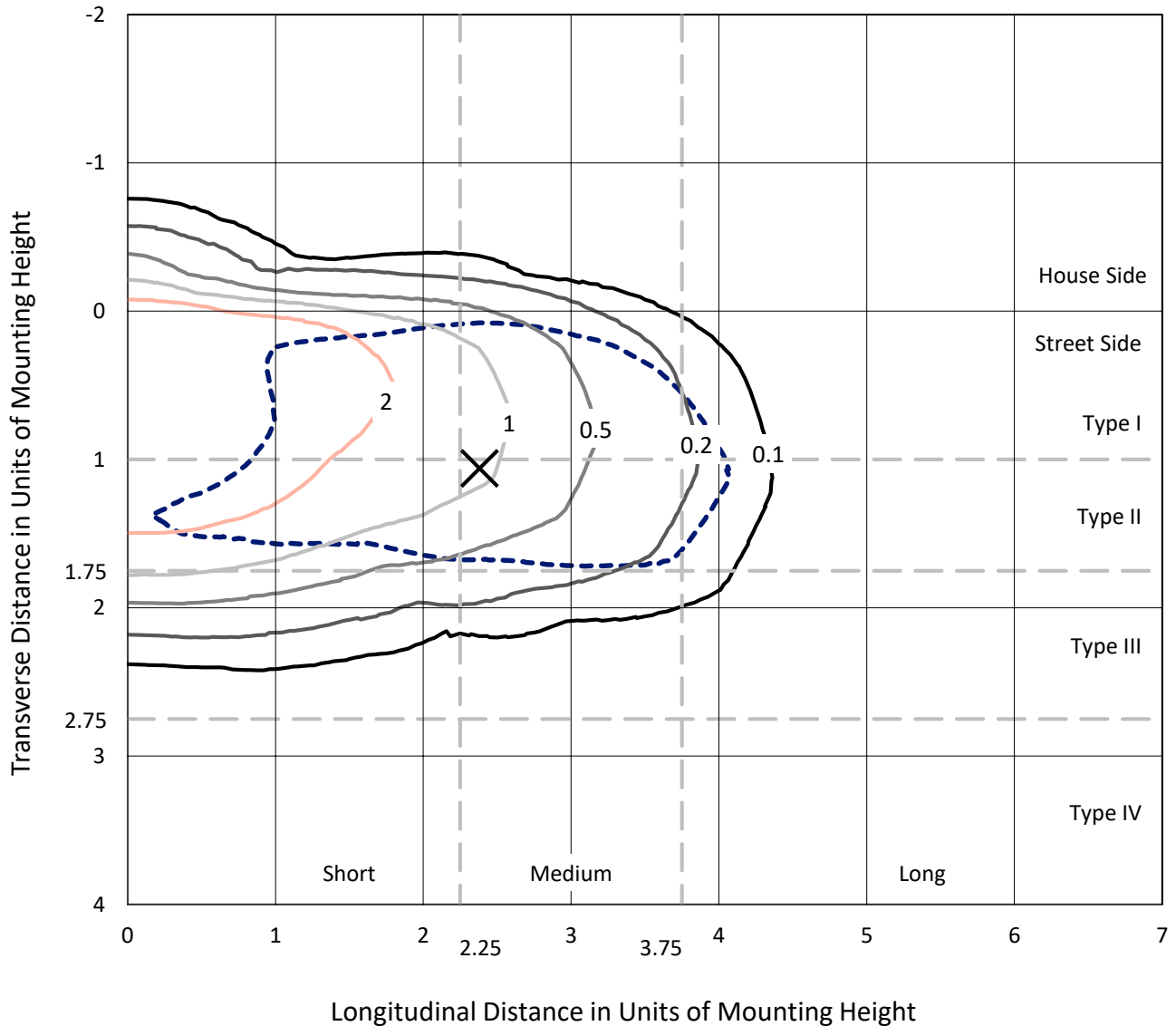
Input Watts (W): 166
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

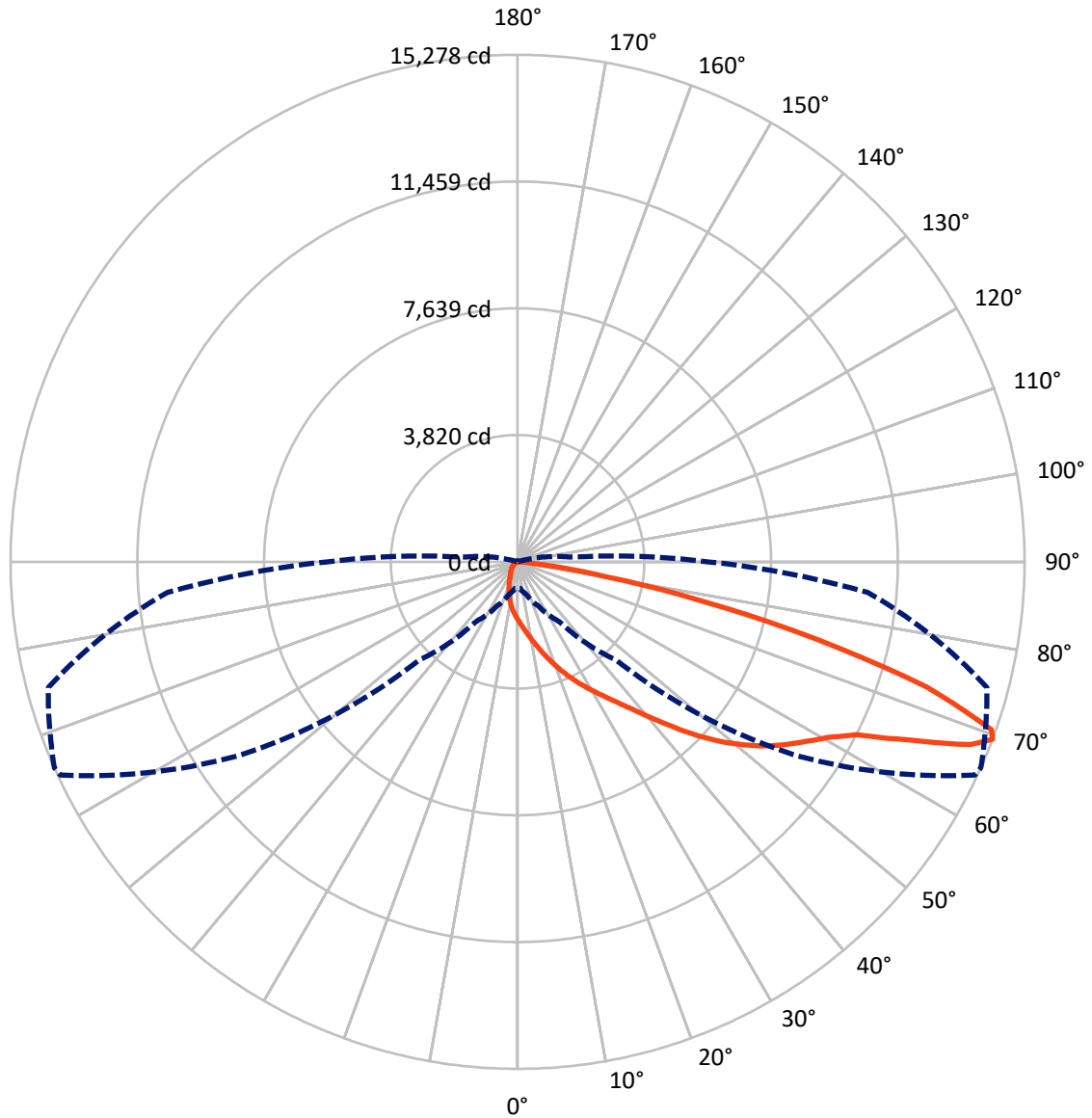
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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	921.5	0.0	921.5
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	14440.5	0.0	14440.5
	% Fixture	94.0	0.0	94.0
Total	Lumens	15362.0	0.0	15362.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.0	1.1
10°-20°	502.9	3.3
20°-30°	875.8	5.7
30°-40°	1536.6	10.0
40°-50°	2572.1	16.7
50°-60°	3780.7	24.6
60°-70°	3881.8	25.3
70°-80°	1916.3	12.5
80°-90°	126.7	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°	15362.0	100.0
0°-180°	15362.0	100.0

Coefficient of Utilization

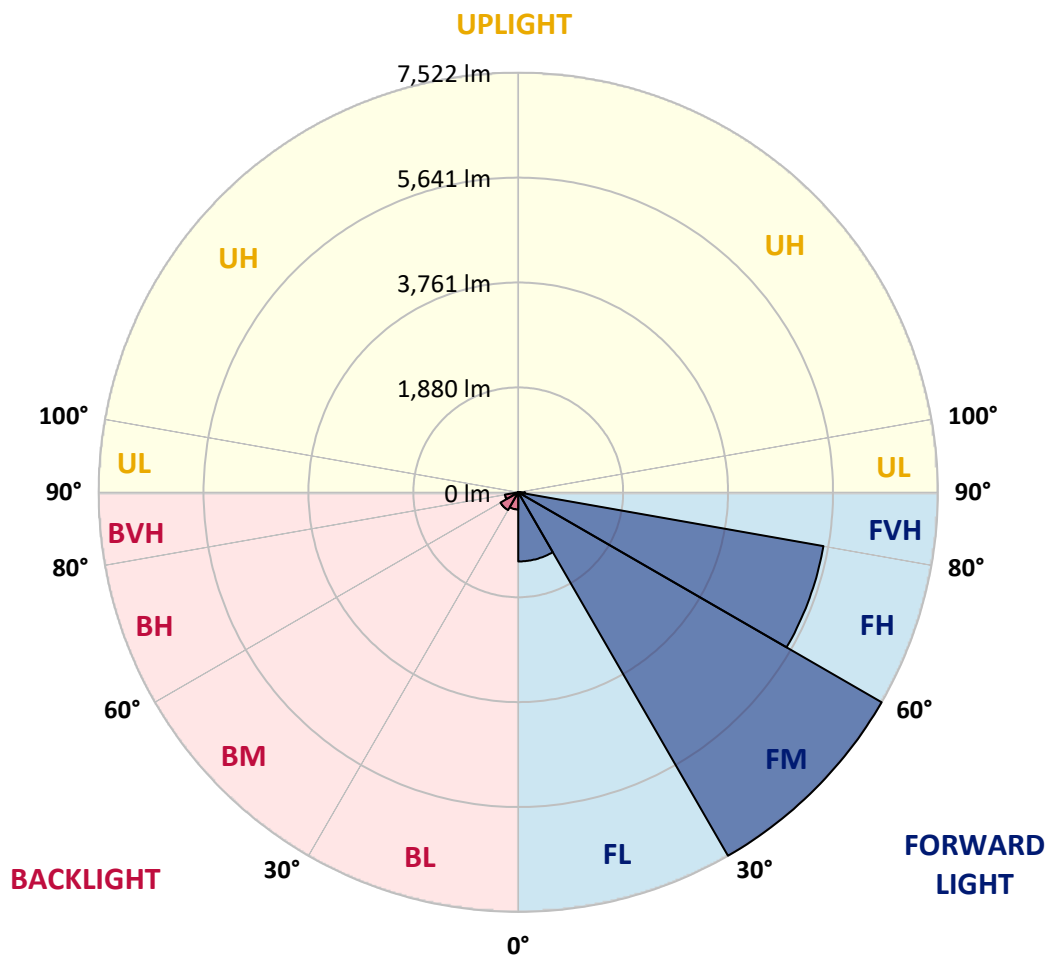


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1239.6	8.1			
FM (30°-60°)	7522.0	49.0			
FH (60°-80°)	5555.3	36.2			G3/7500
FVH (80°-90°)	123.6	0.8			G2/225
BL (0°-30°)	308.2	2.0	B1/500		
BM (30°-60°)	367.4	2.4	B1/1000		
BH (60°-80°)	242.8	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°	1748.2	1748.2	1748.2	1748.2	1748.2	1748.2	1748.2	1748.2	1748.2	1748.2	1748.2
2.5°	2057.6	2048.9	2045.2	2029.2	2001.4	1980.3	1939.4	1892.0	1883.2	1837.3	1781.1
5°	2324.7	2317.4	2312.3	2289.6	2261.2	2207.9	2133.5	2045.2	2028.4	1940.9	1828.5
7.5°	2510.7	2523.9	2523.9	2509.3	2473.5	2433.4	2342.2	2221.8	2200.6	2066.4	1892.0
10°	2619.4	2635.5	2647.9	2660.3	2655.2	2639.1	2553.1	2417.3	2391.8	2213.8	1965.7
12.5°	2629.7	2645.7	2680.7	2732.5	2782.9	2819.4	2765.4	2634.0	2604.9	2384.5	2053.2
15°	2572.8	2589.5	2643.5	2744.2	2866.1	2972.6	2990.1	2874.1	2844.2	2588.1	2162.7
17.5°	2473.5	2484.5	2561.8	2701.2	2892.3	3087.9	3193.7	3131.7	3103.9	2820.8	2284.5
20°	2399.8	2407.8	2475.7	2625.3	2876.3	3160.1	3386.3	3405.3	3376.1	3070.4	2416.6
22.5°	2526.1	2540.6	2542.8	2613.6	2832.5	3195.9	3555.6	3674.5	3652.6	3335.2	2546.5
25°	2871.2	2888.0	2832.5	2788.7	2869.7	3211.9	3700.8	3950.3	3932.8	3620.5	2677.1
27.5°	3327.2	3344.7	3273.2	3142.6	3064.5	3272.5	3829.9	4230.5	4229.8	3922.6	2817.9
30°	3775.2	3792.7	3719.8	3589.2	3409.7	3444.0	3941.6	4523.8	4528.2	4234.2	2967.5
32.5°	4245.1	4267.0	4191.8	4024.0	3836.5	3740.2	4098.5	4818.6	4843.4	4595.3	3136.0
35°	4779.2	4782.1	4676.3	4500.5	4284.5	4136.4	4350.2	5149.2	5208.3	5042.6	3349.8
37.5°	5303.1	5324.3	5237.4	4960.2	4761.7	4593.9	4724.5	5562.1	5646.0	5589.1	3629.3
40°	5691.3	5735.8	5723.4	5424.2	5236.0	5116.3	5189.3	6053.2	6159.7	6225.4	3981.7
42.5°	5935.0	5968.5	6025.5	5845.2	5674.5	5694.2	5738.0	6625.2	6756.6	6950.7	4386.7
45°	6214.4	6230.5	6277.9	6198.4	6083.1	6281.6	6320.2	7269.5	7407.4	7730.7	4836.1
47.5°	6555.9	6593.9	6607.0	6534.0	6481.5	6801.1	6881.3	7855.4	8048.8	8566.1	5311.9
50°	6990.8	7001.0	7023.6	6976.2	6923.7	7247.6	7384.8	8470.5	8646.4	9404.5	5781.0
52.5°	7416.2	7452.7	7531.5	7501.5	7480.4	7627.8	7833.5	9025.1	9221.3	10103.5	6249.5
55°	7538.8	7570.1	7842.3	8028.4	8200.6	8096.2	8262.6	9522.0	9734.3	10728.1	6700.4
57.5°	7049.2	7112.6	7584.0	8068.5	8782.8	8824.4	8852.1	10032.0	10222.4	11206.7	7169.6
60°	5811.7	5824.1	6597.5	7428.6	8686.5	9459.9	9713.1	10579.9	10739.7	11652.5	7731.4
62.5°	3696.4	3822.6	4671.2	5844.5	7667.9	9368.0	10754.3	11408.8	11467.2	12187.4	8536.9
65°	1760.6	1842.4	2453.8	3611.0	5554.1	8191.1	11473.0	12908.3	12934.5	13247.6	9613.2
67.5°	974.8	1014.2	1305.3	1943.8	3246.9	5792.7	11182.6	14684.2	14709.0	14330.4	10557.3
69°	762.5	796.0	1025.2	1465.1	2201.4	4163.4	10119.5	15204.5	15278.2	14640.5	10590.9
70°	647.2	680.0	882.9	1237.5	1770.1	3217.0	9007.5	15075.3	15153.4	14611.3	10340.6
72.5°	396.2	415.2	588.1	871.2	1186.4	1618.4	5554.8	12749.2	12881.3	13403.0	8887.2
75°	267.1	277.3	367.7	601.2	848.6	833.3	2885.8	8986.4	9272.4	10426.0	6563.9
77.5°	191.2	200.7	246.6	388.9	594.7	550.2	1306.8	5584.8	5646.0	6253.1	3579.7
80°	108.7	117.5	174.4	231.3	403.5	367.0	519.5	2667.6	2698.3	2681.5	1195.2
82.5°	56.9	64.2	95.6	152.5	259.0	240.1	216.0	893.1	897.5	746.4	261.9
85°	10.9	13.1	47.4	104.3	133.5	104.3	88.3	209.4	213.8	189.0	64.9
87.5°	0.0	0.7	19.0	23.3	26.3	27.0	28.5	40.9	43.8	59.1	17.5
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°	1748.2	1748.2	1748.2	1748.2	1748.2	1748.2	1748.2	1748.2	1748.2	1748.2	1748.2
2.5°	1756.3	1730.0	1679.7	1621.3	1576.0	1531.5	1496.5	1460.0	1446.9	1440.3	1439.6
5°	1773.8	1718.3	1611.8	1502.4	1412.6	1328.0	1267.4	1209.8	1182.8	1170.4	1165.3
7.5°	1803.0	1714.0	1542.5	1375.4	1246.2	1140.4	1056.5	993.8	962.4	949.3	944.2
10°	1837.3	1708.1	1461.5	1241.1	1076.2	966.8	883.6	821.6	787.3	772.7	765.4
12.5°	1877.4	1697.9	1368.1	1105.4	931.0	821.6	720.9	644.3	604.9	588.1	580.1
15°	1927.0	1687.7	1270.3	977.7	803.3	669.8	559.6	507.8	499.8	496.9	497.6
17.5°	1975.9	1671.6	1163.8	851.5	669.1	523.2	467.0	464.1	465.5	465.5	465.5
20°	2019.7	1635.1	1047.8	743.5	541.4	441.4	429.8	424.7	421.0	418.1	414.4
22.5°	2054.0	1586.3	936.1	636.3	442.2	404.2	386.0	369.9	356.8	348.0	343.7
25°	2077.3	1521.3	834.0	533.4	397.7	367.7	334.9	307.9	287.5	275.1	270.0
27.5°	2094.8	1451.3	742.8	446.5	367.0	325.4	282.4	250.3	229.1	218.2	213.8
30°	2107.2	1371.7	662.5	392.6	332.7	280.9	234.9	203.6	188.3	182.4	179.5
32.5°	2118.9	1283.5	586.6	367.0	300.6	240.1	197.0	172.9	163.4	156.1	154.0
35°	2148.1	1201.7	514.4	340.0	267.8	205.0	169.3	151.8	142.3	137.9	136.4
37.5°	2217.4	1141.2	445.1	312.3	234.9	177.3	148.1	135.7	127.0	122.6	121.1
40°	2329.0	1110.5	386.7	282.4	202.8	156.1	134.3	122.6	113.1	106.5	105.1
42.5°	2493.2	1114.9	345.9	252.5	177.3	139.4	121.1	107.3	97.0	91.2	89.7
45°	2692.4	1147.0	317.4	223.3	156.1	126.2	106.5	91.9	82.5	77.3	75.9
47.5°	2908.4	1198.8	294.0	197.0	139.4	113.8	91.9	76.6	68.6	64.2	63.5
50°	3136.0	1249.2	270.0	171.5	124.8	101.4	77.3	63.5	56.9	53.3	51.8
52.5°	3366.6	1307.5	248.1	148.1	112.4	86.8	64.2	51.8	46.7	43.8	42.3
55°	3614.7	1351.3	226.9	129.9	100.0	73.7	53.3	43.0	38.7	35.0	34.3
57.5°	3906.6	1419.2	205.0	112.4	85.4	61.3	43.8	34.3	30.6	27.0	26.3
60°	4300.6	1498.7	181.7	99.2	70.0	50.3	35.8	27.7	23.3	20.4	19.7
62.5°	4820.1	1587.0	152.5	86.8	56.9	40.9	28.5	21.9	16.8	13.1	13.1
65°	5479.0	1730.7	124.8	73.0	46.7	33.6	21.9	16.1	9.5	5.8	5.8
67.5°	5863.5	1755.5	100.7	59.8	37.9	28.5	18.2	10.9	2.9	0.7	0.0
69°	5740.2	1611.8	85.4	51.1	32.8	27.0	16.8	8.0	1.5	0.0	0.0
70°	5508.1	1473.9	75.2	45.2	29.9	25.5	16.1	5.8	1.5	0.0	0.0
72.5°	4551.6	1049.2	56.9	33.6	21.9	22.6	14.6	3.6	1.5	0.0	0.0
75°	3315.5	637.7	40.9	23.3	13.9	16.8	10.2	1.5	0.7	0.0	0.0
77.5°	1844.6	300.6	25.5	13.1	8.8	10.2	5.1	0.0	0.0	0.0	0.0
80°	599.0	81.7	11.7	7.3	5.1	5.8	2.2	0.0	0.0	0.0	0.0
82.5°	110.9	23.3	6.6	3.6	1.5	1.5	0.0	0.0	0.0	0.0	0.0
85°	24.1	9.5	3.6	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.0	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)