

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: P321938

Luminaire Tested: **GAN-SA4D-740-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321938
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-SA4D-740-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 1200mA 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: 22266 lumens
Efficiency: N/A
Efficacy: 86.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G4

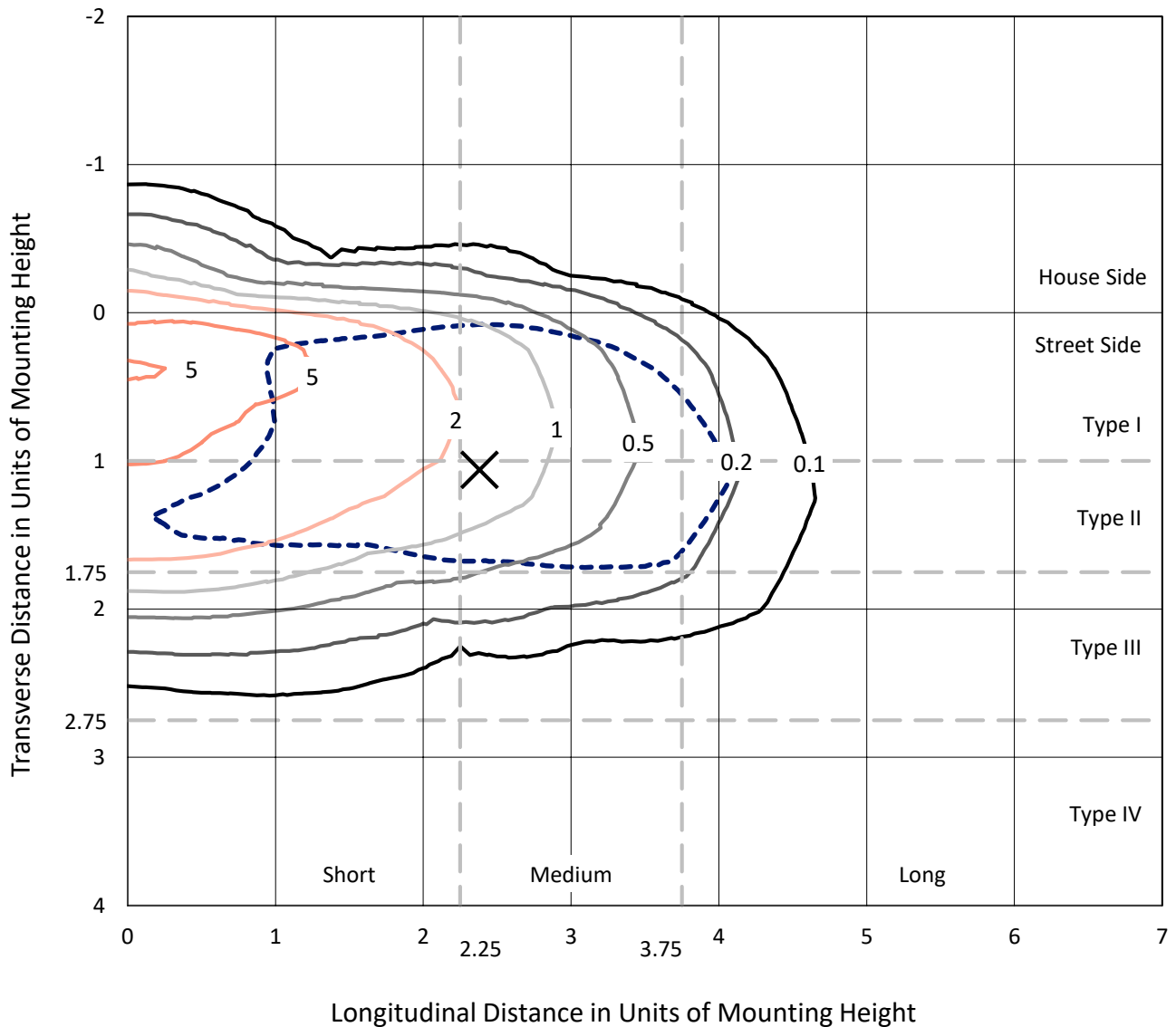
Input Watts (W): 258
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

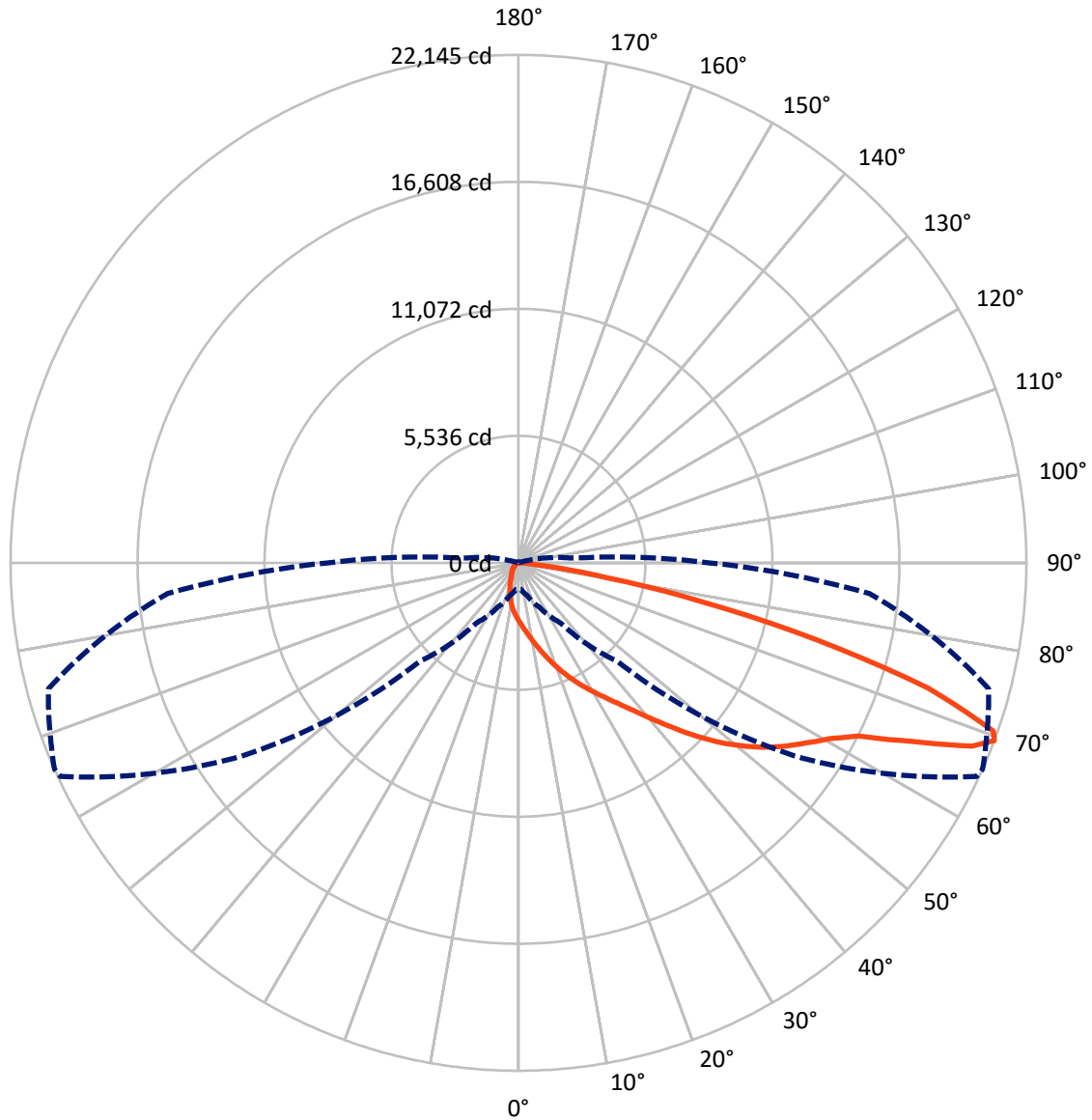
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 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	1335.6	0.0	1335.6
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	20930.3	0.0	20930.3
	% Fixture	94.0	0.0	94.0
Total	Lumens	22266.0	0.0	22266.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	244.9	1.1
10°-20°	729.0	3.3
20°-30°	1269.4	5.7
30°-40°	2227.2	10.0
40°-50°	3728.0	16.7
50°-60°	5479.8	24.6
60°-70°	5626.4	25.3
70°-80°	2777.6	12.5
80°-90°	183.7	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°	22266.0	100.0
0°-180°	22266.0	100.0

Coefficient of Utilization

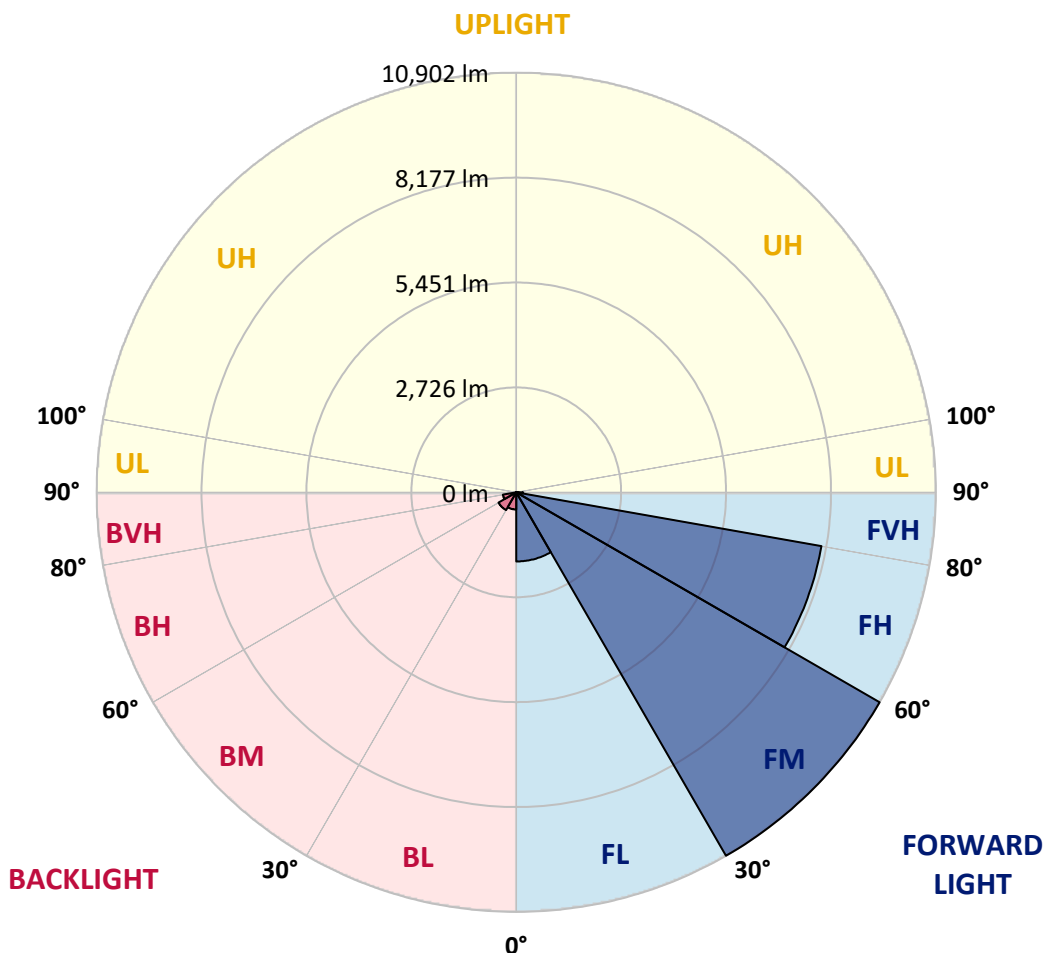


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1796.6	8.1			
FM (30°-60°)	10902.5	49.0			
FH (60°-80°)	8052.0	36.2			G4/12000
FVH (80°-90°)	179.2	0.8			G2/225
BL (0°-30°)	446.7	2.0	B1/500		
BM (30°-60°)	532.5	2.4	B1/1000		
BH (60°-80°)	352.0	1.6	B1/500		G1/500
BVH (80°-90°)	4.4	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-G4
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2533.9	2533.9	2533.9	2533.9	2533.9	2533.9	2533.9	2533.9	2533.9	2533.9	2533.9
2.5°	2982.4	2969.7	2964.4	2941.1	2900.9	2870.3	2811.0	2742.3	2729.6	2663.0	2581.5
5°	3369.4	3358.8	3351.4	3318.7	3277.4	3200.2	3092.3	2964.4	2940.0	2813.1	2650.3
7.5°	3639.1	3658.1	3658.1	3637.0	3585.2	3527.0	3394.8	3220.3	3189.6	2995.0	2742.3
10°	3796.7	3819.9	3837.9	3855.9	3848.5	3825.2	3700.4	3503.7	3466.7	3208.7	2849.1
12.5°	3811.5	3834.8	3885.5	3960.6	4033.6	4086.5	4008.2	3817.8	3775.5	3456.1	2976.0
15°	3729.0	3753.3	3831.6	3977.5	4154.1	4308.5	4333.9	4165.8	4122.4	3751.2	3134.6
17.5°	3585.2	3601.0	3713.1	3915.1	4192.2	4475.6	4629.0	4539.1	4498.9	4088.6	3311.3
20°	3478.4	3490.0	3588.3	3805.1	4168.9	4580.3	4908.2	4935.7	4893.4	4450.3	3502.7
22.5°	3661.3	3682.5	3685.6	3788.2	4105.5	4632.2	5153.5	5325.9	5294.2	4834.2	3690.9
25°	4161.5	4185.9	4105.5	4042.0	4159.4	4655.4	5364.0	5725.7	5700.3	5247.7	3880.2
27.5°	4822.5	4847.9	4744.3	4555.0	4441.8	4743.2	5551.2	6131.8	6130.7	5685.5	4084.3
30°	5471.9	5497.3	5391.5	5202.2	4942.0	4991.7	5713.0	6556.9	6563.3	6137.1	4301.1
32.5°	6153.0	6184.7	6075.8	5832.5	5560.7	5421.1	5940.4	6984.2	7020.2	6660.6	4545.4
35°	6927.1	6931.3	6778.0	6523.1	6210.1	5995.4	6305.2	7463.3	7548.9	7308.9	4855.3
37.5°	7686.4	7717.1	7591.3	7189.4	6901.7	6658.5	6847.8	8061.9	8183.5	8101.0	5260.4
40°	8249.1	8313.6	8295.6	7862.0	7589.1	7415.7	7521.5	8773.6	8928.0	9023.2	5771.2
42.5°	8602.3	8650.9	8733.4	8472.2	8224.7	8253.3	8316.7	9602.8	9793.1	10074.4	6358.1
45°	9007.3	9030.6	9099.3	8984.1	8817.0	9104.6	9160.7	10536.6	10736.5	11205.0	7009.6
47.5°	9502.3	9557.3	9576.3	9470.6	9394.4	9857.6	9974.0	11385.8	11666.1	12415.9	7699.1
50°	10132.6	10147.4	10180.2	10111.4	10035.3	10504.9	10703.7	12277.4	12532.2	13631.0	8379.1
52.5°	10749.2	10802.0	10916.3	10872.9	10842.2	11055.9	11354.1	13081.1	13365.6	14644.2	9058.1
55°	10926.8	10972.3	11366.8	11636.5	11886.1	11734.8	11975.9	13801.3	14109.1	15549.5	9711.7
57.5°	10217.2	10309.2	10992.4	11694.6	12730.0	12790.3	12830.5	14540.6	14816.6	16243.2	10391.7
60°	8423.6	8441.5	9562.6	10767.1	12590.4	13711.4	14078.4	15334.8	15566.4	16889.4	11206.0
62.5°	5357.7	5540.6	6770.6	8471.2	11114.0	13578.2	15587.6	16536.2	16620.8	17664.6	12373.6
65°	2551.9	2670.4	3556.6	5233.9	8050.2	11872.3	16629.3	18709.5	18747.6	19201.3	13933.5
67.5°	1412.9	1470.0	1892.0	2817.4	4706.2	8396.1	16208.3	21283.6	21319.6	20770.7	15302.0
69°	1105.2	1153.8	1485.9	2123.6	3190.7	6034.5	14667.5	22037.7	22144.5	21220.2	15350.7
70°	938.1	985.7	1279.7	1793.6	2565.7	4662.8	13055.7	21850.5	21963.7	21177.9	14987.9
72.5°	574.3	601.8	852.4	1262.7	1719.6	2345.7	8051.3	18479.0	18670.4	19426.5	12881.2
75°	387.1	401.9	533.0	871.4	1230.0	1207.7	4182.7	13025.1	13439.6	15111.6	9513.9
77.5°	277.1	290.8	357.5	563.7	861.9	797.4	1894.1	8094.7	8183.5	9063.4	5188.4
80°	157.6	170.3	252.8	335.3	584.8	532.0	753.0	3866.5	3910.9	3886.6	1732.3
82.5°	82.5	93.1	138.5	221.0	375.4	347.9	313.0	1294.5	1300.8	1081.9	379.7
85°	15.9	19.0	68.7	151.2	193.5	151.2	128.0	303.5	309.9	273.9	94.1
87.5°	0.0	1.1	27.5	33.8	38.1	39.1	41.2	59.2	63.5	85.7	25.4
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°	2533.9	2533.9	2533.9	2533.9	2533.9	2533.9	2533.9	2533.9	2533.9	2533.9	2533.9
2.5°	2545.6	2507.5	2434.5	2349.9	2284.4	2219.8	2169.1	2116.2	2097.2	2087.6	2086.6
5°	2571.0	2490.6	2336.2	2177.5	2047.5	1924.8	1837.0	1753.5	1714.3	1696.3	1688.9
7.5°	2613.3	2484.2	2235.7	1993.5	1806.3	1653.0	1531.4	1440.4	1394.9	1375.9	1368.5
10°	2663.0	2475.8	2118.3	1798.9	1559.9	1401.3	1280.7	1190.8	1141.1	1120.0	1109.4
12.5°	2721.1	2461.0	1982.9	1602.2	1349.5	1190.8	1044.9	933.8	876.7	852.4	840.8
15°	2793.0	2446.2	1841.2	1417.1	1164.4	970.9	811.2	736.1	724.4	720.2	721.3
17.5°	2863.9	2422.9	1686.8	1234.2	969.8	758.3	676.8	672.6	674.7	674.7	674.7
20°	2927.4	2370.0	1518.7	1077.7	784.7	639.8	622.9	615.5	610.2	606.0	600.7
22.5°	2977.1	2299.2	1356.9	922.2	640.9	585.9	559.5	536.2	517.2	504.5	498.1
25°	3010.9	2205.0	1208.8	773.1	576.4	533.0	485.4	446.3	416.7	398.7	391.3
27.5°	3036.3	2103.5	1076.6	647.2	532.0	471.7	409.3	362.7	332.1	316.2	309.9
30°	3054.3	1988.2	960.3	569.0	482.3	407.2	340.5	295.1	272.9	264.4	260.2
32.5°	3071.2	1860.3	850.3	532.0	435.7	347.9	285.5	250.6	236.9	226.3	223.1
35°	3113.5	1741.8	745.6	492.8	388.1	297.2	245.4	220.0	206.2	199.9	197.8
37.5°	3214.0	1654.0	645.1	452.6	340.5	257.0	214.7	196.7	184.0	177.7	175.6
40°	3375.8	1609.6	560.5	409.3	294.0	226.3	194.6	177.7	163.9	154.4	152.3
42.5°	3613.7	1616.0	501.3	365.9	257.0	202.0	175.6	155.5	140.7	132.2	130.1
45°	3902.4	1662.5	460.0	323.6	226.3	183.0	154.4	133.3	119.5	112.1	110.0
47.5°	4215.5	1737.6	426.2	285.5	202.0	165.0	133.3	111.0	99.4	93.1	92.0
50°	4545.4	1810.6	391.3	248.5	180.8	147.0	112.1	92.0	82.5	77.2	75.1
52.5°	4879.6	1895.2	359.6	214.7	162.9	125.9	93.1	75.1	67.7	63.5	61.3
55°	5239.2	1958.6	328.9	188.2	144.9	106.8	77.2	62.4	56.1	50.8	49.7
57.5°	5662.2	2057.0	297.2	162.9	123.7	88.8	63.5	49.7	44.4	39.1	38.1
60°	6233.3	2172.3	263.3	143.8	101.5	73.0	51.8	40.2	33.8	29.6	28.6
62.5°	6986.3	2300.2	221.0	125.9	82.5	59.2	41.2	31.7	24.3	19.0	19.0
65°	7941.3	2508.6	180.8	105.8	67.7	48.6	31.7	23.3	13.7	8.5	8.5
67.5°	8498.6	2544.5	145.9	86.7	55.0	41.2	26.4	15.9	4.2	1.1	0.0
69°	8319.9	2336.2	123.7	74.0	47.6	39.1	24.3	11.6	2.1	0.0	0.0
70°	7983.6	2136.3	108.9	65.6	43.4	37.0	23.3	8.5	2.1	0.0	0.0
72.5°	6597.1	1520.8	82.5	48.6	31.7	32.8	21.2	5.3	2.1	0.0	0.0
75°	4805.6	924.3	59.2	33.8	20.1	24.3	14.8	2.1	1.1	0.0	0.0
77.5°	2673.5	435.7	37.0	19.0	12.7	14.8	7.4	0.0	0.0	0.0	0.0
80°	868.3	118.4	16.9	10.6	7.4	8.5	3.2	0.0	0.0	0.0	0.0
82.5°	160.8	33.8	9.5	5.3	2.1	2.1	0.0	0.0	0.0	0.0	0.0
85°	34.9	13.7	5.3	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	11.6	4.2	1.1	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)