

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: P324872

Luminaire Tested: **GAN-SA8A-760-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324872
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-SA8A-760-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5700K, 615mA 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: 30574 lumens
Efficiency: N/A
Efficacy: 119.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

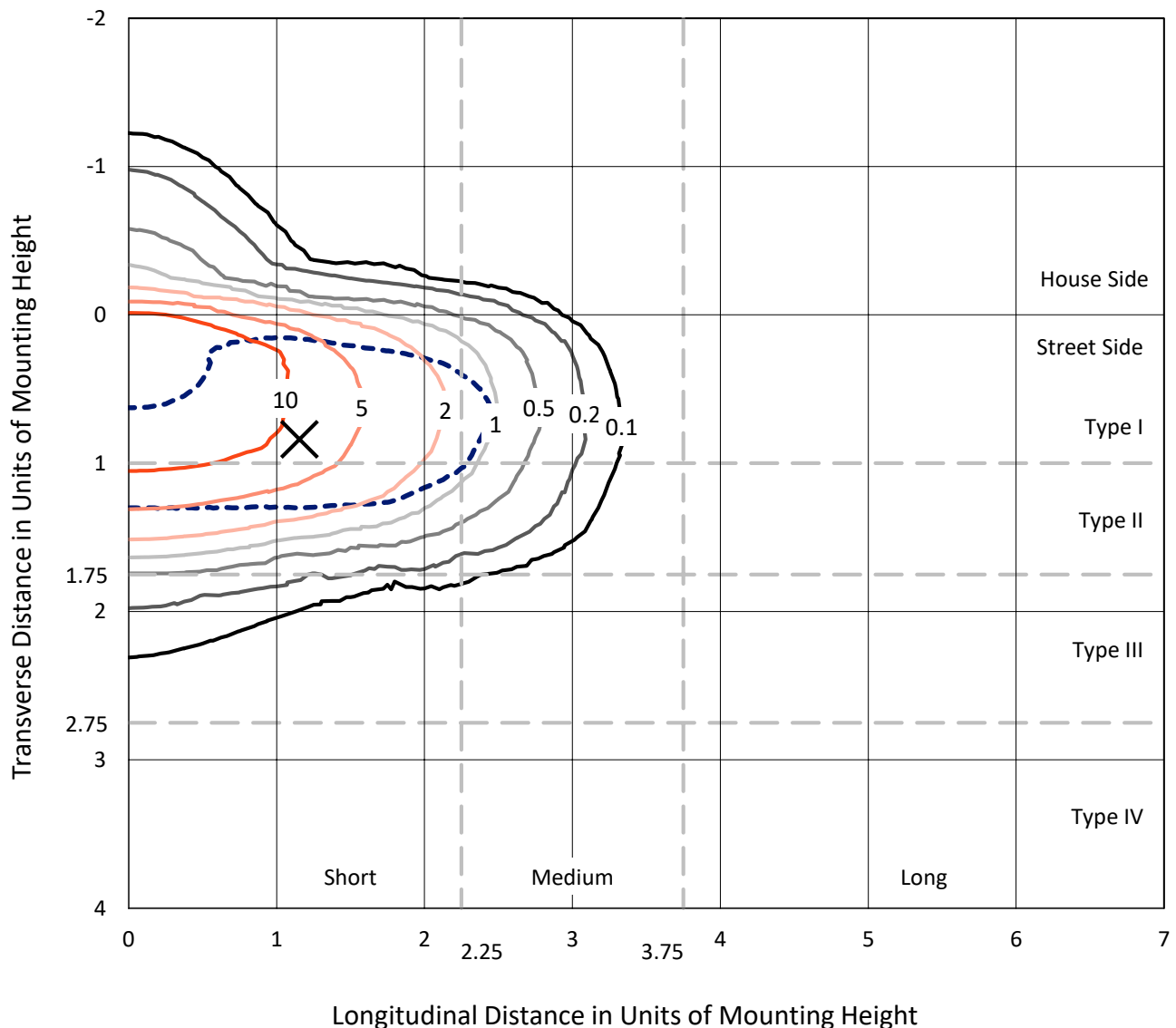
Input Watts (W): 257
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

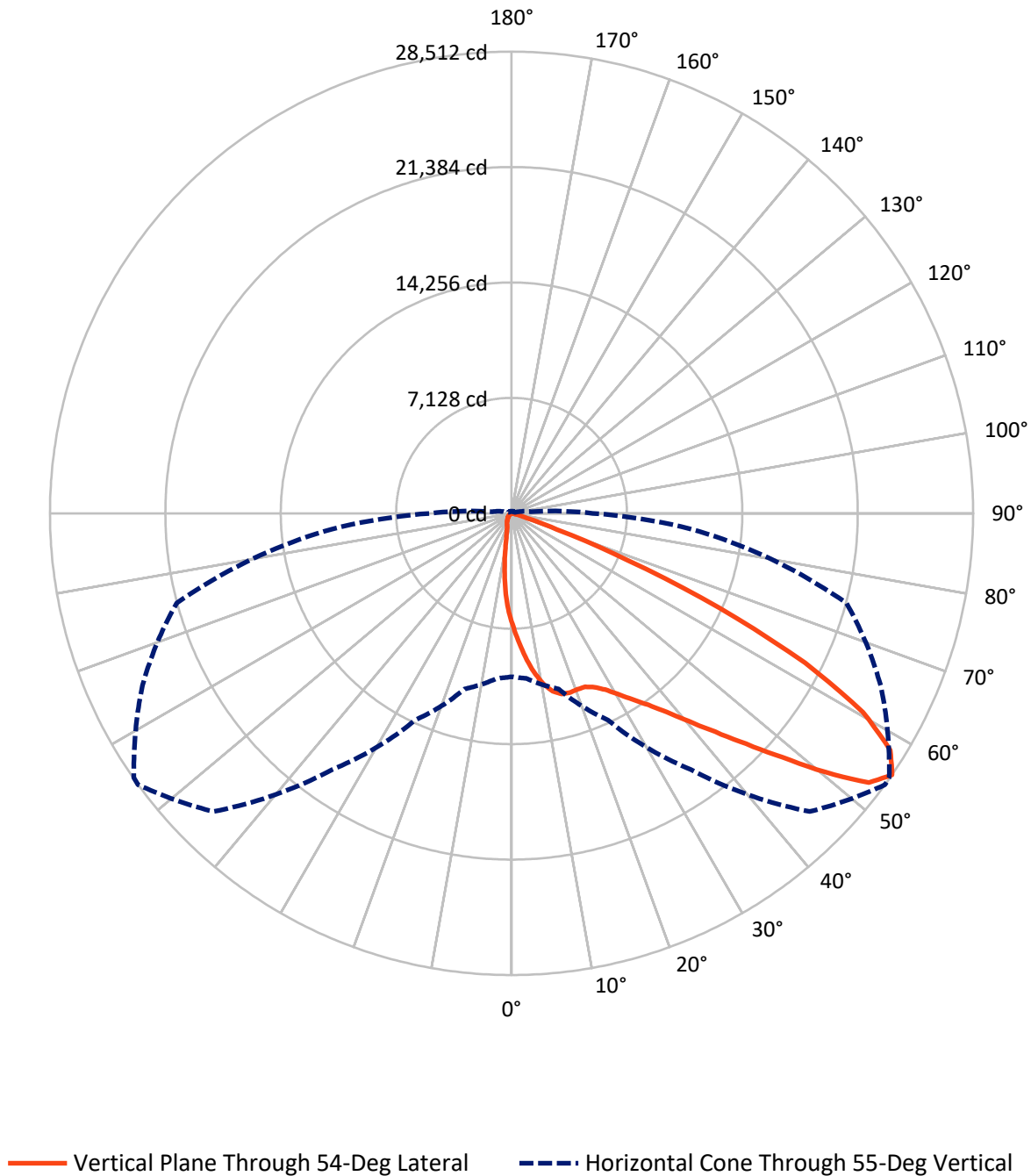
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1525.4	0.0	1525.4
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	29048.6	0.0	29048.6
	% Fixture	95.0	0.0	95.0
Total	Lumens	30574.0	0.0	30574.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	630.6	2.1
10°-20°	1729.3	5.7
20°-30°	2952.6	9.7
30°-40°	4738.3	15.5
40°-50°	7571.9	24.8
50°-60°	8113.5	26.5
60°-70°	4165.7	13.6
70°-80°	631.0	2.1
80°-90°	41.1	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°	30574.0	100.0
0°-180°	30574.0	100.0

Coefficient of Utilization



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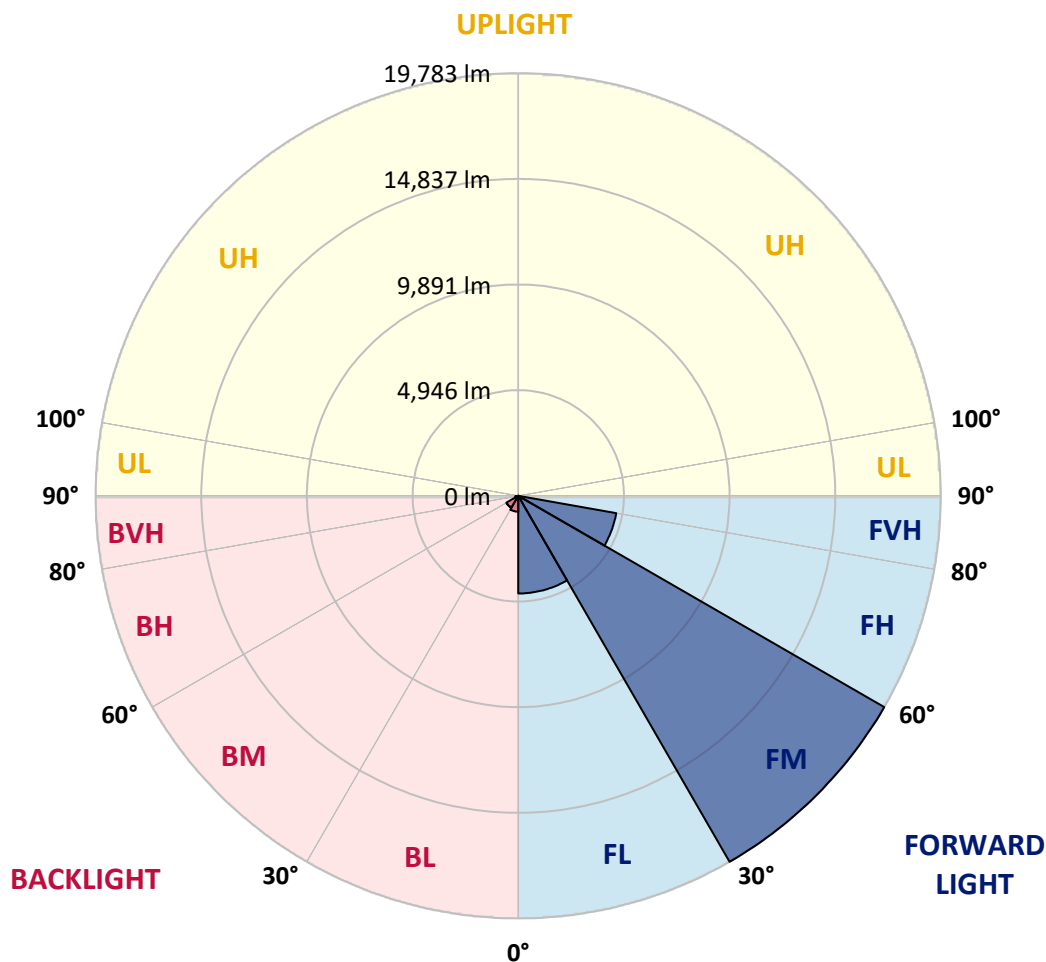
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4570.3	14.9			
FM	(30°-60°)	19782.7	64.7			
FH	(60°-80°)	4656.1	15.2			G2/5000
FVH	(80°-90°)	39.4	0.1			G1/100
BL	(0°-30°)	742.2	2.4	B2/1000		
BM	(30°-60°)	641.0	2.1	B1/1000		
BH	(60°-80°)	140.6	0.5	B1/500		G1/500
BVH	(80°-90°)	1.7	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	6847.3	6847.3	6847.3	6847.3	6847.3	6847.3	6847.3	6847.3	6847.3	6847.3	6847.3
2.5°	8592.9	8464.8	8468.7	8410.6	8198.1	8031.7	7858.7	7817.8	7548.5	7265.9	6993.9
5°	10078.3	9984.5	9962.1	9849.8	9554.1	9241.1	8905.8	8827.9	8301.1	7722.7	7153.7
7.5°	10841.4	10842.7	10824.3	10783.3	10598.5	10294.8	9885.5	9803.6	9086.7	8219.2	7320.0
10°	10619.6	10669.8	10772.8	10908.8	11050.0	11011.7	10704.1	10630.2	9851.2	8744.7	7504.9
12.5°	10102.0	10108.6	10223.5	10446.6	10853.3	11270.5	11275.8	11250.7	10581.3	9294.0	7708.2
15°	9844.5	9869.6	9911.9	10055.8	10441.3	11109.4	11587.4	11623.1	11250.7	9877.6	7924.8
17.5°	10013.6	10049.2	10013.6	10030.7	10253.9	10854.6	11641.5	11732.7	11835.6	10454.6	8129.4
20°	10471.7	10504.7	10441.3	10371.4	10414.9	10780.7	11603.3	11726.1	12293.8	10966.8	8301.1
22.5°	11089.6	11102.8	11006.5	10891.6	10859.9	11031.5	11634.9	11761.7	12660.9	11430.3	8409.3
25°	11769.6	11781.5	11661.4	11529.3	11454.1	11524.0	11895.1	11990.1	12984.3	11872.6	8471.4
27.5°	12510.3	12520.9	12370.4	12208.0	12120.8	12123.5	12324.2	12425.8	13329.0	12377.0	8521.6
30°	13293.3	13288.0	13149.4	12923.6	12812.7	12810.1	12942.1	13045.1	13828.1	13024.0	8590.2
32.5°	14172.7	14162.1	13965.4	13685.5	13560.0	13578.5	13696.0	13755.4	14447.3	13713.2	8713.0
35°	15330.6	15300.2	15003.2	14655.9	14424.9	14418.3	14517.3	14564.8	15236.9	14547.6	8917.7
37.5°	16833.2	16805.4	16402.7	15898.4	15573.6	15452.1	15569.6	15630.3	16363.1	15618.5	9246.4
40°	18314.6	18286.9	18047.9	17585.8	17085.4	16793.6	16886.0	16950.7	17769.3	16917.7	9661.0
42.5°	19336.6	19360.3	19443.5	19481.8	19013.1	18400.4	18442.7	18510.0	19246.8	18306.7	10135.0
45°	19605.9	19657.4	20127.5	21050.4	21226.0	20748.0	20305.7	20342.7	20748.0	19695.7	10609.0
47.5°	18796.5	18891.6	19798.7	21515.1	23001.9	23339.9	22502.8	22453.9	22188.5	20819.3	10945.7
50°	16957.3	17044.4	18219.5	20758.6	23540.6	25814.2	25135.6	24991.6	23452.1	21491.4	11064.6
52.5°	14295.5	14401.1	15355.7	18376.7	22525.2	26918.0	27628.4	27508.2	24379.0	21544.2	11084.4
55°	10095.4	10223.5	11233.6	14084.2	19307.5	26040.0	28511.7	28476.0	25148.8	21404.2	11126.6
57.5°	5673.6	5766.0	6855.3	9028.6	14141.0	22681.0	27588.8	27825.1	25613.5	21161.3	11190.0
60°	2519.2	2544.3	3108.1	4494.5	8278.6	17333.6	24946.7	25345.5	25214.8	20836.5	11296.9
62.5°	1396.9	1375.8	1375.8	1868.3	3598.0	10730.5	20342.7	21001.5	23512.8	20452.3	11302.2
65°	1094.6	1074.8	1018.0	1025.9	1370.5	4762.5	14086.8	15258.0	20280.6	19326.0	10922.0
67.5°	928.2	911.0	854.3	831.8	851.6	1571.2	7739.9	8956.0	15388.7	16398.8	9460.3
70°	784.3	772.4	743.4	715.6	665.5	776.4	2961.6	3788.1	9482.8	10908.8	6457.8
72.5°	631.1	625.8	636.4	612.6	551.9	517.6	1012.7	1226.6	4259.5	4868.1	2660.5
75°	544.0	541.3	546.6	522.9	454.2	360.5	514.9	562.5	1201.5	1191.0	538.7
77.5°	353.9	357.8	452.9	442.3	390.8	240.3	266.7	287.8	364.4	273.3	163.7
80°	225.8	223.1	229.7	367.1	351.2	183.5	133.4	140.0	175.6	134.7	79.2
82.5°	137.3	134.7	150.5	171.6	176.9	128.1	81.9	83.2	109.6	87.1	42.3
85°	11.9	15.8	91.1	84.5	60.7	39.6	39.6	42.3	58.1	51.5	23.8
87.5°	0.0	0.0	15.8	23.8	13.2	14.5	14.5	15.8	22.4	22.4	11.9
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°	6847.3	6847.3	6847.3	6847.3	6847.3	6847.3	6847.3	6847.3	6847.3	6847.3	6847.3
2.5°	6852.6	6715.3	6438.0	6171.3	5945.5	5727.7	5479.5	5233.9	5119.0	5072.8	5025.3
5°	6864.5	6582.0	6010.2	5434.6	4837.8	4300.4	3842.2	3372.2	3137.2	3034.2	2986.6
7.5°	6880.4	6449.9	5525.7	4559.2	3598.0	2869.1	2232.7	1823.4	1646.5	1618.8	1550.1
10°	6883.0	6290.2	4963.2	3592.7	2412.3	1729.7	1330.9	1119.7	1041.8	1028.6	1006.1
12.5°	6888.3	6101.3	4338.7	2660.5	1608.2	1156.6	962.5	892.6	871.4	870.1	870.1
15°	6904.1	5903.3	3690.4	1917.2	1155.3	916.3	845.0	817.3	809.4	813.3	812.0
17.5°	6904.1	5669.6	3054.0	1428.6	933.5	823.9	784.3	765.8	763.2	767.1	768.4
20°	6854.0	5385.7	2470.4	1111.7	827.9	764.5	728.8	711.7	705.1	707.7	709.0
22.5°	6733.8	5037.1	1995.1	920.3	757.9	710.3	672.1	645.7	635.1	636.4	636.4
25°	6546.3	4623.9	1560.7	796.2	701.1	652.3	607.4	577.0	570.4	569.1	571.7
27.5°	6306.0	4167.0	1242.5	701.1	633.8	587.6	542.7	517.6	512.3	513.6	514.9
30°	6069.7	3693.0	979.7	620.6	558.5	514.9	480.6	468.7	468.7	472.7	474.0
32.5°	5853.1	3237.5	775.0	550.6	491.2	451.6	431.8	430.4	437.0	439.7	441.0
35°	5667.0	2816.3	641.7	496.5	438.4	404.0	397.4	402.7	410.6	415.9	417.2
37.5°	5534.9	2440.0	561.1	451.6	397.4	369.7	368.4	378.9	389.5	401.4	404.0
40°	5479.5	2121.8	505.7	412.0	364.4	343.3	339.3	353.9	373.7	390.8	393.5
42.5°	5433.3	1861.7	458.2	373.7	338.0	307.6	306.3	324.8	348.6	365.7	369.7
45°	5393.6	1653.1	414.6	332.7	303.7	264.1	268.0	291.8	310.3	328.8	332.7
47.5°	5311.8	1481.4	367.1	289.2	250.9	225.8	233.7	254.8	269.4	297.1	301.0
50°	5165.2	1341.5	318.2	236.3	204.7	195.4	207.3	221.8	240.3	264.1	266.7
52.5°	5066.2	1235.9	276.0	198.1	169.0	171.6	183.5	188.8	199.4	208.6	206.0
55°	5009.4	1177.8	241.6	171.6	143.9	151.8	154.5	147.9	142.6	133.4	129.4
57.5°	5002.8	1124.9	215.2	149.2	126.8	130.7	121.5	99.0	80.5	70.0	67.3
60°	4992.3	1060.2	194.1	125.4	112.2	106.9	87.1	54.1	38.3	35.6	35.6
62.5°	4877.4	959.9	178.2	105.6	95.1	80.5	50.2	25.1	21.1	22.4	22.4
65°	4511.6	819.9	162.4	85.8	75.3	58.1	25.1	14.5	7.9	9.2	9.2
67.5°	3835.6	653.6	145.2	66.0	56.8	37.0	14.5	6.6	0.0	0.0	0.0
70°	2568.1	405.3	122.8	46.2	37.0	22.4	10.6	1.3	0.0	0.0	0.0
72.5°	985.0	219.2	99.0	27.7	23.8	15.8	6.6	0.0	0.0	0.0	0.0
75°	221.8	143.9	68.7	19.8	17.2	10.6	2.6	0.0	0.0	0.0	0.0
77.5°	84.5	104.3	39.6	13.2	11.9	6.6	0.0	0.0	0.0	0.0	0.0
80°	40.9	62.1	18.5	7.9	6.6	2.6	0.0	0.0	0.0	0.0	0.0
82.5°	21.1	23.8	7.9	4.0	2.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	11.9	11.9	4.0	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.6	4.0	1.3	1.3	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)