

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: P324709

Luminaire Tested: **GAN-SA5A-727-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324709
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-SA5A-727-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 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: 15946 lumens
Efficiency: N/A
Efficacy: 98.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

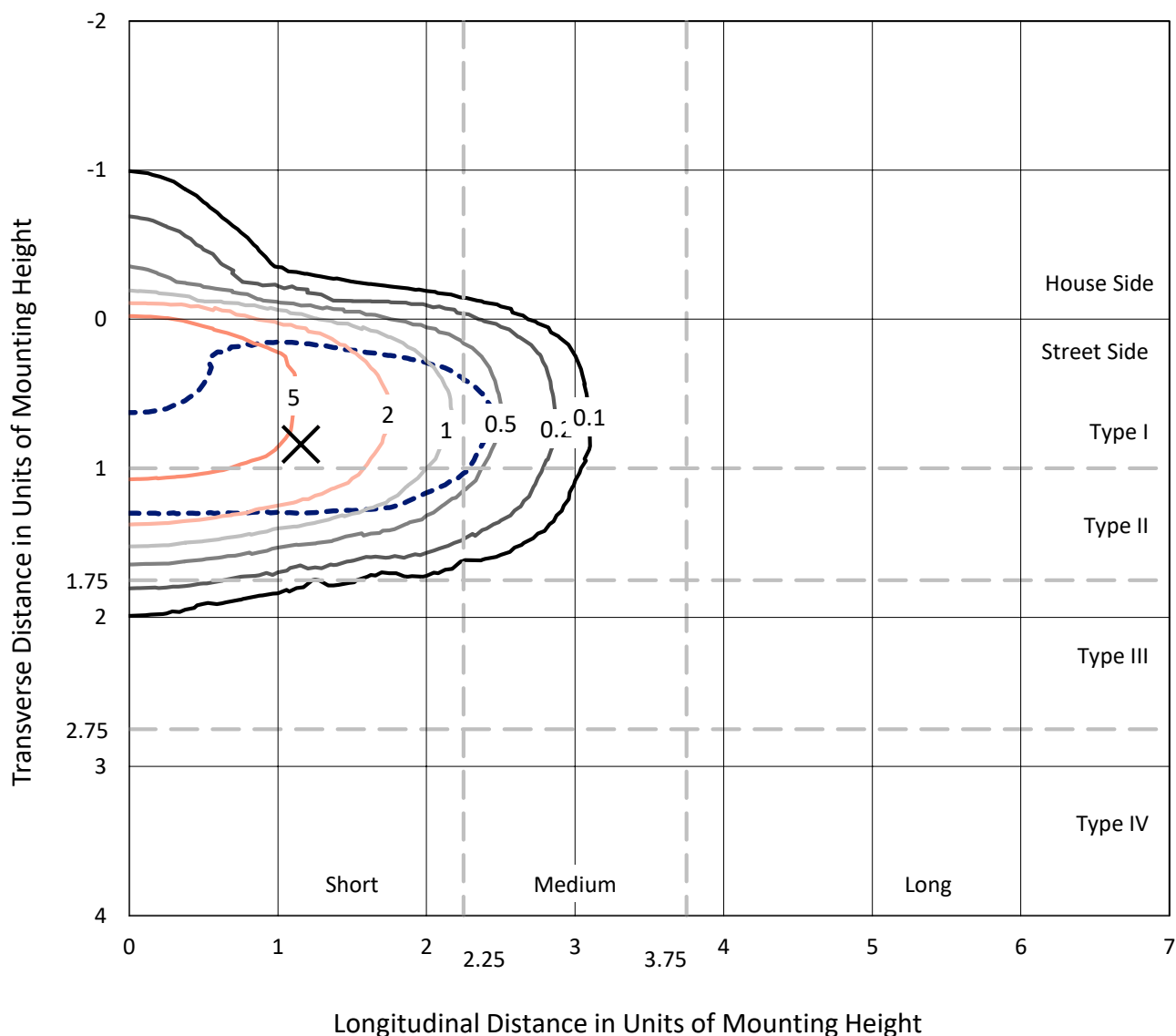
Input Watts (W): 162
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

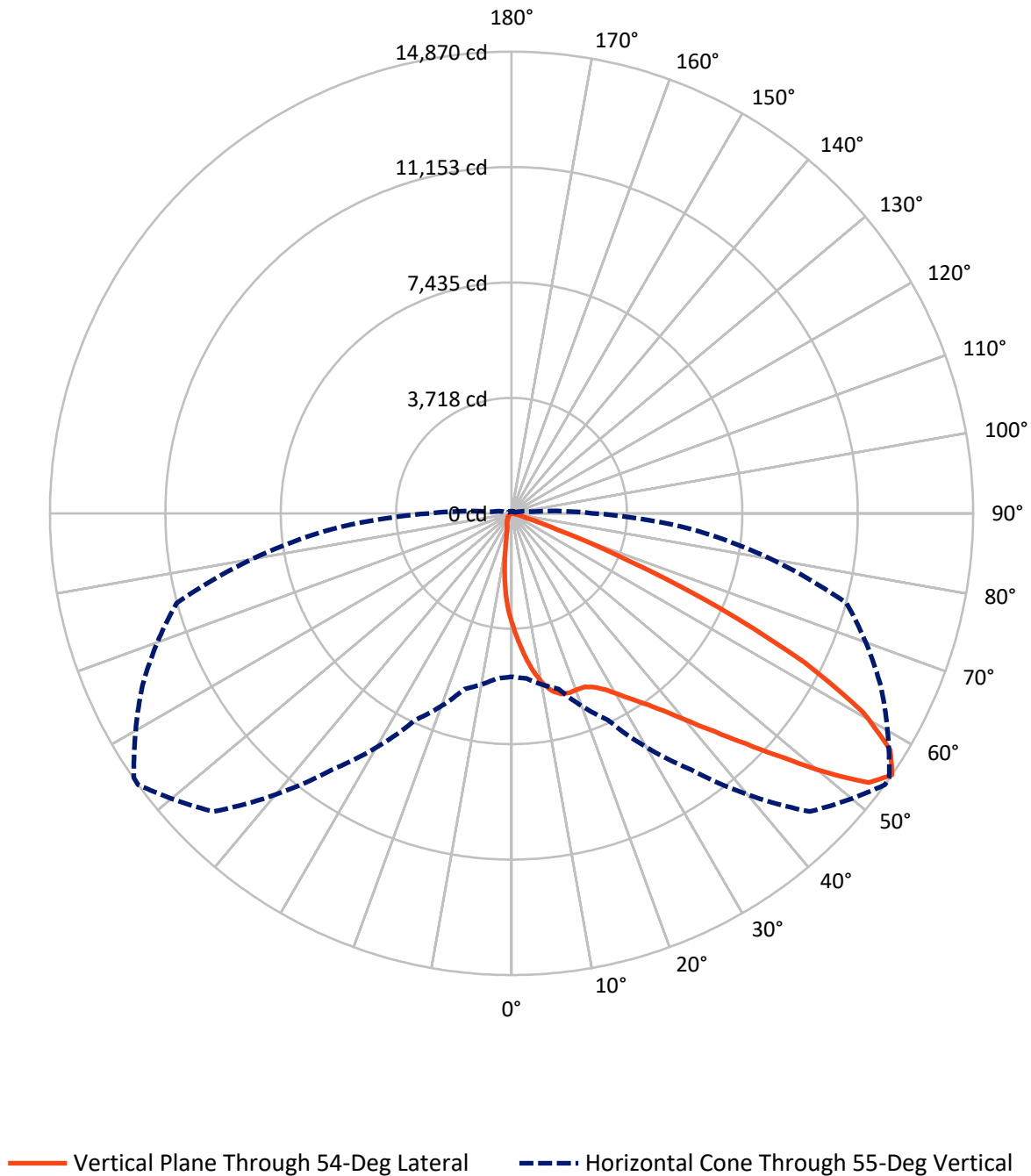
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 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	795.6	0.0	795.6
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	15150.4	0.0	15150.4
	% Fixture	95.0	0.0	95.0
Total	Lumens	15946.0	0.0	15946.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	328.9	2.1
10°-20°	901.9	5.7
20°-30°	1539.9	9.7
30°-40°	2471.3	15.5
40°-50°	3949.2	24.8
50°-60°	4231.6	26.5
60°-70°	2172.6	13.6
70°-80°	329.1	2.1
80°-90°	21.4	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°	15946.0	100.0
0°-180°	15946.0	100.0

Coefficient of Utilization



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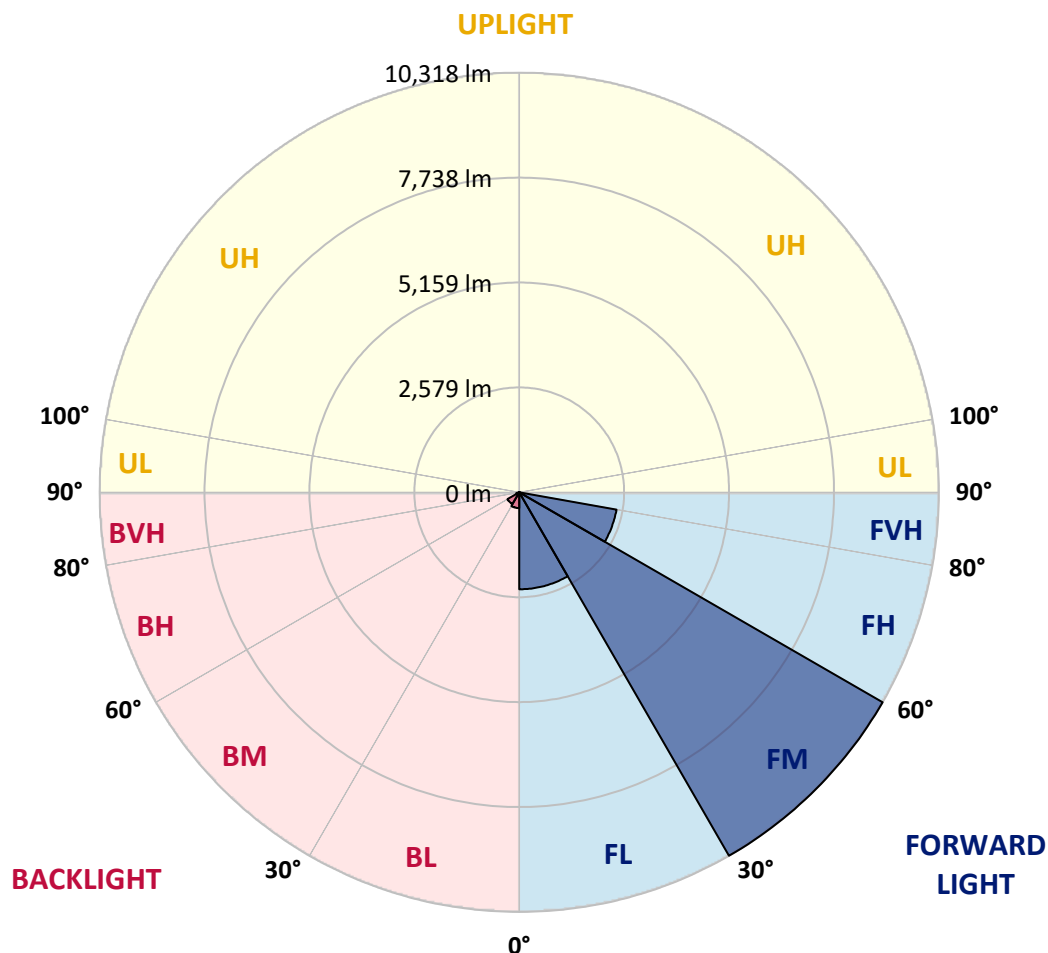
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2383.7	14.9			
FM	(30°-60°)	10317.8	64.7			
FH	(60°-80°)	2428.4	15.2			G2/5000
FVH	(80°-90°)	20.6	0.1			G1/100
BL	(0°-30°)	387.1	2.4	B1/500		
BM	(30°-60°)	334.3	2.1	B1/1000		
BH	(60°-80°)	73.3	0.5	B0/110		G0/110
BVH	(80°-90°)	0.9	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°	54°	55°	65°	75°	85°
0°	3571.3	3571.3	3571.3	3571.3	3571.3	3571.3	3571.3	3571.3	3571.3	3571.3	3571.3
2.5°	4481.6	4414.8	4416.9	4386.6	4275.7	4189.0	4098.8	4077.4	3936.9	3789.6	3647.7
5°	5256.4	5207.5	5195.8	5137.2	4983.0	4819.8	4644.8	4604.2	4329.5	4027.8	3731.0
7.5°	5654.4	5655.1	5645.4	5624.1	5527.7	5369.3	5155.8	5113.1	4739.2	4286.8	3817.8
10°	5538.7	5564.9	5618.6	5689.5	5763.2	5743.2	5582.8	5544.2	5137.9	4560.8	3914.2
12.5°	5268.8	5272.2	5332.1	5448.5	5660.6	5878.2	5880.9	5867.9	5518.7	4847.3	4020.3
15°	5134.5	5147.6	5169.6	5244.6	5445.7	5794.2	6043.5	6062.1	5867.9	5151.7	4133.2
17.5°	5222.6	5241.2	5222.6	5231.6	5347.9	5661.3	6071.7	6119.2	6172.9	5452.6	4239.9
20°	5461.6	5478.8	5445.7	5409.2	5432.0	5622.7	6051.7	6115.8	6411.9	5719.8	4329.5
22.5°	5783.9	5790.7	5740.5	5680.6	5664.0	5753.6	6068.3	6134.4	6603.3	5961.5	4385.9
25°	6138.5	6144.7	6082.0	6013.2	5973.9	6010.4	6203.9	6253.5	6772.0	6192.2	4418.3
27.5°	6524.8	6530.3	6451.8	6367.1	6321.7	6323.1	6427.7	6480.7	6951.8	6455.3	4444.5
30°	6933.2	6930.4	6858.1	6740.4	6682.5	6681.1	6750.0	6803.7	7212.1	6792.7	4480.3
32.5°	7391.8	7386.3	7283.7	7137.7	7072.3	7081.9	7143.2	7174.2	7535.1	7152.2	4544.3
35°	7995.7	7979.9	7825.0	7643.9	7523.3	7519.9	7571.5	7596.3	7946.9	7587.4	4651.0
37.5°	8779.4	8765.0	8554.9	8291.9	8122.5	8059.1	8120.4	8152.1	8534.3	8145.9	4822.5
40°	9552.1	9537.6	9413.0	9171.9	8910.9	8758.8	8807.0	8840.7	9267.7	8823.5	5038.7
42.5°	10085.1	10097.5	10140.8	10160.8	9916.4	9596.8	9618.9	9654.0	10038.2	9547.9	5286.0
45°	10225.5	10252.4	10497.6	10978.9	11070.5	10821.2	10590.5	10609.8	10821.2	10272.4	5533.2
47.5°	9803.4	9853.0	10326.1	11221.3	11996.7	12173.0	11736.4	11710.9	11572.5	10858.4	5708.8
50°	8844.1	8889.6	9502.5	10826.7	12277.7	13463.5	13109.6	13034.5	12231.5	11208.9	5770.8
52.5°	7455.9	7510.9	8008.8	9584.4	11748.1	14039.2	14409.7	14347.0	12715.0	11236.5	5781.1
55°	5265.3	5332.1	5858.9	7345.7	10069.9	13581.3	14870.4	14851.8	13116.4	11163.5	5803.1
57.5°	2959.1	3007.3	3575.4	4708.9	7375.3	11829.4	14389.0	14512.3	13358.8	11036.8	5836.2
60°	1313.9	1327.0	1621.0	2344.1	4317.7	9040.4	13011.1	13219.0	13150.9	10867.4	5892.0
62.5°	728.6	717.6	717.6	974.4	1876.5	5596.5	10609.8	10953.4	12263.2	10667.0	5894.7
65°	570.9	560.5	530.9	535.1	714.8	2483.9	7347.1	7957.9	10577.4	10079.6	5696.4
67.5°	484.1	475.2	445.5	433.8	444.2	819.5	4036.8	4671.0	8026.0	8552.9	4934.1
70°	409.0	402.9	387.7	373.2	347.1	404.9	1544.6	1975.7	4945.8	5689.5	3368.1
72.5°	329.2	326.4	331.9	319.5	287.8	269.9	528.2	639.7	2221.5	2539.0	1387.6
75°	283.7	282.3	285.1	272.7	236.9	188.0	268.6	293.4	626.7	621.1	281.0
77.5°	184.6	186.6	236.2	230.7	203.8	125.3	139.1	150.1	190.1	142.5	85.4
80°	117.8	116.4	119.8	191.4	183.2	95.7	69.6	73.0	91.6	70.2	41.3
82.5°	71.6	70.2	78.5	89.5	92.3	66.8	42.7	43.4	57.2	45.4	22.0
85°	6.2	8.3	47.5	44.1	31.7	20.7	20.7	22.0	30.3	26.9	12.4
87.5°	0.0	0.0	8.3	12.4	6.9	7.6	7.6	8.3	11.7	11.7	6.2
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°	3571.3	3571.3	3571.3	3571.3	3571.3	3571.3	3571.3	3571.3	3571.3	3571.3	3571.3
2.5°	3574.0	3502.4	3357.8	3218.7	3100.9	2987.3	2857.8	2729.8	2669.8	2645.7	2620.9
5°	3580.2	3432.8	3134.7	2834.4	2523.2	2242.9	2003.9	1758.8	1636.2	1582.5	1557.7
7.5°	3588.5	3364.0	2881.9	2377.9	1876.5	1496.4	1164.5	951.0	858.7	844.3	808.5
10°	3589.9	3280.7	2588.6	1873.8	1258.1	902.1	694.1	584.0	543.3	536.4	524.7
12.5°	3592.6	3182.2	2262.9	1387.6	838.8	603.2	502.0	465.5	454.5	453.8	453.8
15°	3600.9	3078.9	1924.7	999.9	602.6	477.9	440.7	426.3	422.1	424.2	423.5
17.5°	3600.9	2957.0	1592.8	745.1	486.9	429.7	409.0	399.4	398.0	400.1	400.8
20°	3574.7	2808.9	1288.4	579.8	431.8	398.7	380.1	371.2	367.7	369.1	369.8
22.5°	3512.0	2627.1	1040.5	480.0	395.3	370.5	350.5	336.7	331.2	331.9	331.9
25°	3414.3	2411.6	814.0	415.2	365.7	340.2	316.8	300.9	297.5	296.8	298.2
27.5°	3288.9	2173.3	648.0	365.7	330.5	306.4	283.0	269.9	267.2	267.9	268.6
30°	3165.7	1926.1	511.0	323.7	291.3	268.6	250.7	244.5	244.5	246.5	247.2
32.5°	3052.7	1688.5	404.2	287.2	256.2	235.5	225.2	224.5	227.9	229.3	230.0
35°	2955.6	1468.9	334.7	258.9	228.6	210.7	207.3	210.0	214.2	216.9	217.6
37.5°	2886.8	1272.6	292.7	235.5	207.3	192.8	192.1	197.6	203.1	209.3	210.7
40°	2857.8	1106.6	263.7	214.9	190.1	179.0	177.0	184.6	194.9	203.8	205.2
42.5°	2833.7	971.0	239.0	194.9	176.3	160.5	159.8	169.4	181.8	190.8	192.8
45°	2813.1	862.2	216.2	173.5	158.4	137.7	139.8	152.2	161.8	171.5	173.5
47.5°	2770.4	772.6	191.4	150.8	130.8	117.8	121.9	132.9	140.5	154.9	157.0
50°	2693.9	699.7	166.0	123.3	106.7	101.9	108.1	115.7	125.3	137.7	139.1
52.5°	2642.3	644.6	143.9	103.3	88.1	89.5	95.7	98.5	104.0	108.8	107.4
55°	2612.7	614.3	126.0	89.5	75.1	79.2	80.6	77.1	74.4	69.6	67.5
57.5°	2609.2	586.7	112.2	77.8	66.1	68.2	63.4	51.6	42.0	36.5	35.1
60°	2603.7	553.0	101.2	65.4	58.5	55.8	45.4	28.2	20.0	18.6	18.6
62.5°	2543.8	500.6	93.0	55.1	49.6	42.0	26.2	13.1	11.0	11.7	11.7
65°	2353.1	427.6	84.7	44.8	39.3	30.3	13.1	7.6	4.1	4.8	4.8
67.5°	2000.5	340.9	75.7	34.4	29.6	19.3	7.6	3.4	0.0	0.0	0.0
70°	1339.4	211.4	64.0	24.1	19.3	11.7	5.5	0.7	0.0	0.0	0.0
72.5°	513.7	114.3	51.6	14.5	12.4	8.3	3.4	0.0	0.0	0.0	0.0
75°	115.7	75.1	35.8	10.3	9.0	5.5	1.4	0.0	0.0	0.0	0.0
77.5°	44.1	54.4	20.7	6.9	6.2	3.4	0.0	0.0	0.0	0.0	0.0
80°	21.3	32.4	9.6	4.1	3.4	1.4	0.0	0.0	0.0	0.0	0.0
82.5°	11.0	12.4	4.1	2.1	1.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	6.2	6.2	2.1	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.4	2.1	0.7	0.7	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)