

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: P324777

Luminaire Tested: **GAN-SA3D-730-U-AFL-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P324777  
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-SA3D-730-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3000K, 1200mA 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: 17661 lumens  
Efficiency: N/A  
Efficacy: 92.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2

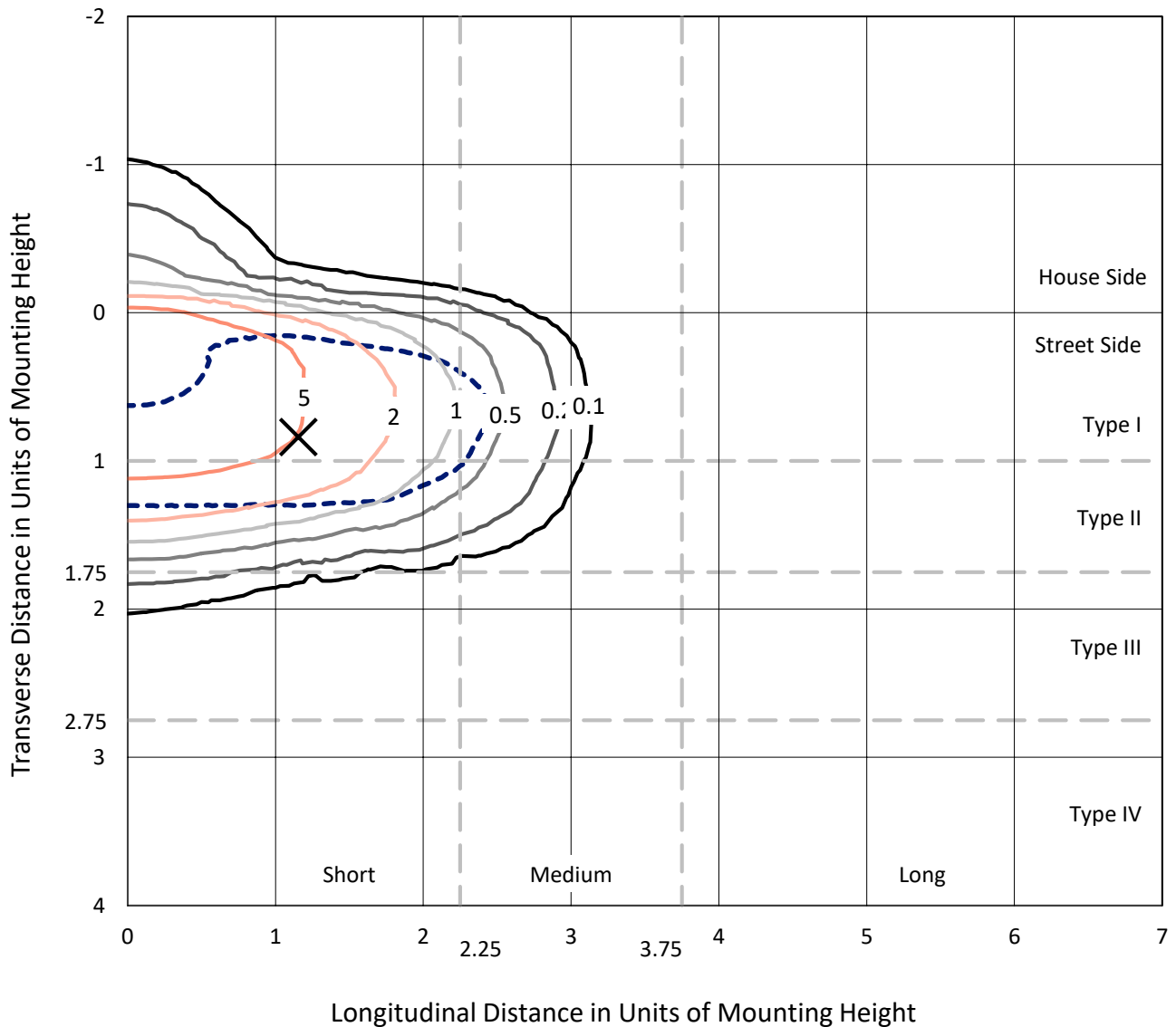
Input Watts (W): 191  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

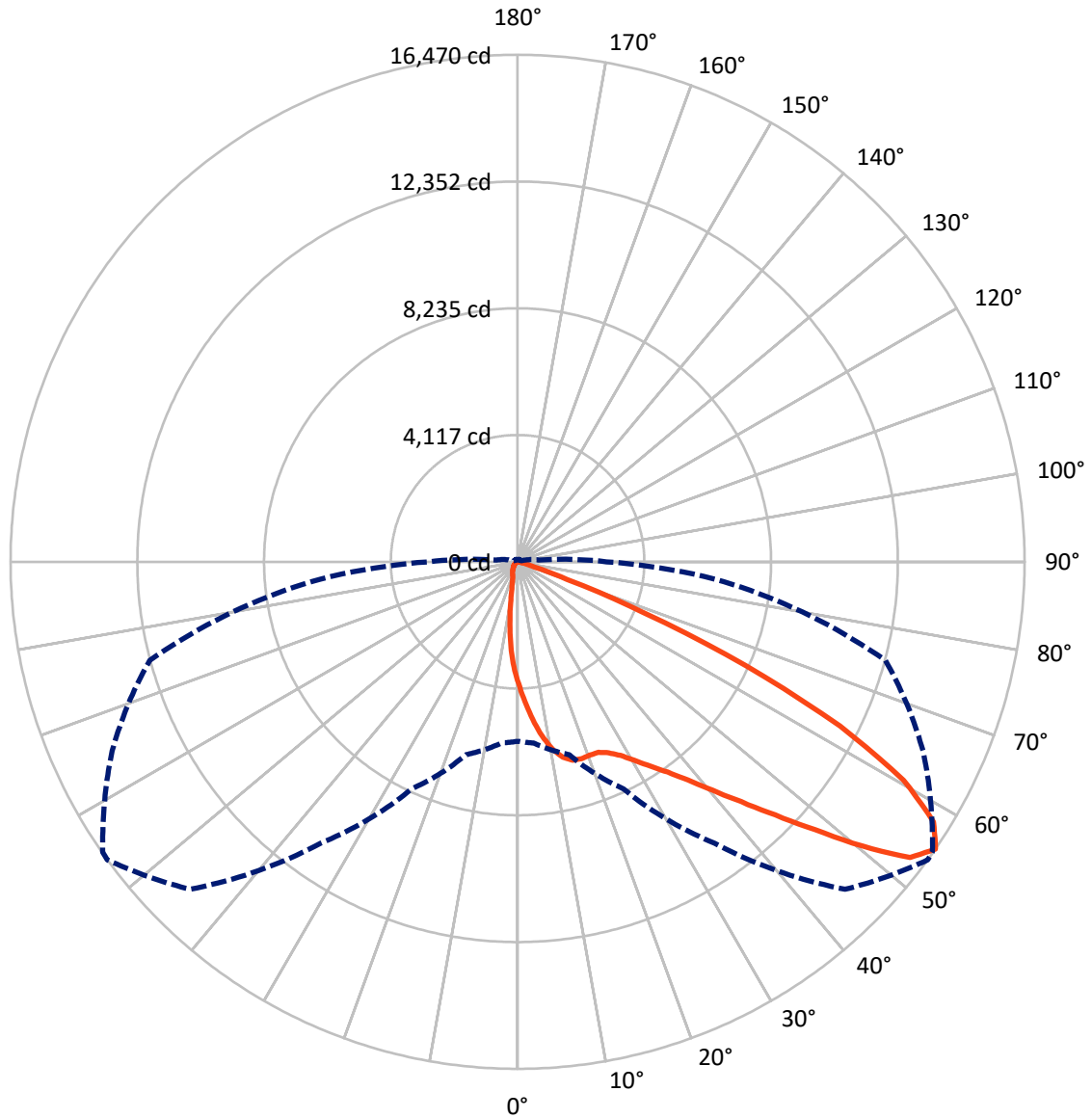
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral    - - - Horizontal Cone Through 55-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	881.1	0.0	881.1
	% Fixture	5.0	0.0	5.0
<b>Street Side</b>	Lumens	16779.9	0.0	16779.9
	% Fixture	95.0	0.0	95.0
<b>Total</b>	Lumens	17661.0	0.0	17661.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	364.2	2.1
10°-20°	999.0	5.7
20°-30°	1705.5	9.7
30°-40°	2737.1	15.5
40°-50°	4373.9	24.8
50°-60°	4686.7	26.5
60°-70°	2406.3	13.6
70°-80°	364.5	2.1
80°-90°	23.7	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°	17661.0	100.0
0°-180°	17661.0	100.0

**Coefficient of Utilization**

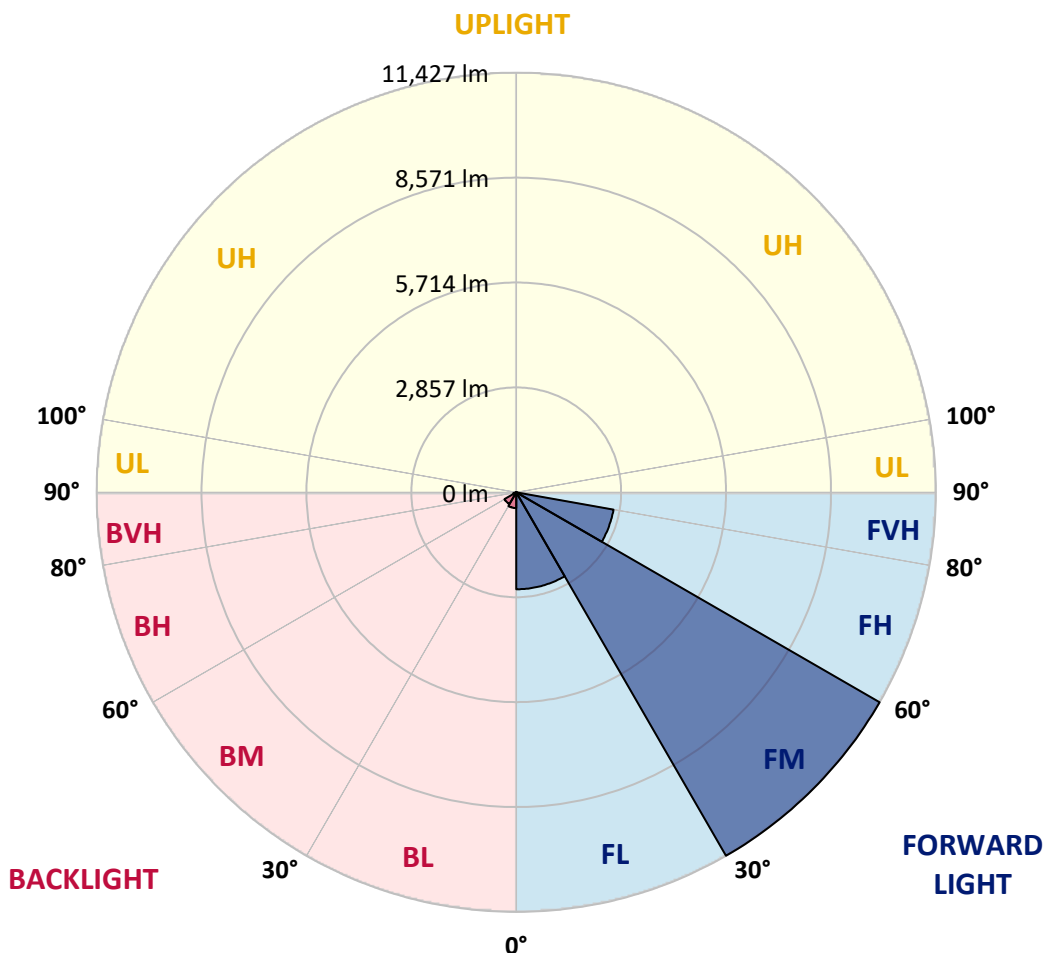


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2640.0	14.9			
FM (30°-60°)	11427.4	64.7			
FH (60°-80°)	2689.6	15.2			G2/5000
FVH (80°-90°)	22.8	0.1			G1/100
BL (0°-30°)	428.7	2.4	B1/500		
BM (30°-60°)	370.3	2.1	B1/1000		
BH (60°-80°)	81.2	0.5	B0/110		G0/110
BVH (80°-90°)	1.0	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°	3955.4	3955.4	3955.4	3955.4	3955.4	3955.4	3955.4	3955.4	3955.4	3955.4	3955.4
2.5°	4963.6	4889.7	4891.9	4858.4	4735.6	4639.5	4539.6	4515.9	4360.3	4197.1	4040.0
5°	5821.7	5767.5	5754.6	5689.7	5518.9	5338.1	5144.4	5099.4	4795.1	4461.0	4132.3
7.5°	6262.5	6263.3	6252.6	6229.0	6122.2	5946.8	5710.3	5663.0	5248.9	4747.8	4228.4
10°	6134.4	6163.4	6222.9	6301.4	6383.0	6360.9	6183.2	6140.5	5690.5	5051.4	4335.2
12.5°	5835.4	5839.2	5905.6	6034.5	6269.4	6510.4	6513.4	6499.0	6112.3	5368.6	4452.6
15°	5686.7	5701.2	5725.6	5808.7	6031.4	6417.3	6693.4	6714.0	6499.0	5705.7	4577.7
17.5°	5784.3	5804.9	5784.3	5794.2	5923.1	6270.1	6724.7	6777.3	6836.8	6039.0	4695.9
20°	6049.0	6068.0	6031.4	5991.0	6016.2	6227.4	6702.6	6773.5	7101.5	6335.0	4795.1
22.5°	6405.9	6413.5	6357.9	6291.5	6273.2	6372.3	6720.9	6794.1	7313.5	6602.7	4857.6
25°	6798.7	6805.6	6736.2	6659.9	6616.4	6656.8	6871.2	6926.1	7500.4	6858.2	4893.5
27.5°	7226.6	7232.7	7145.7	7051.9	7001.6	7003.1	7119.0	7177.8	7699.4	7149.5	4922.5
30°	7678.8	7675.8	7595.7	7465.3	7401.2	7399.7	7476.0	7535.5	7987.7	7523.3	4962.1
32.5°	8186.8	8180.7	8067.1	7905.4	7832.9	7843.6	7911.5	7945.8	8345.4	7921.4	5033.0
35°	8855.7	8838.2	8666.5	8466.0	8332.5	8328.7	8385.9	8413.3	8801.5	8403.4	5151.3
37.5°	9723.6	9707.6	9475.0	9183.7	8996.0	8925.9	8993.7	9028.8	9452.1	9022.0	5341.2
40°	10579.4	10563.4	10425.3	10158.4	9869.3	9700.8	9754.2	9791.5	10264.4	9772.5	5580.7
42.5°	11169.7	11183.5	11231.5	11253.6	10982.9	10629.0	10653.4	10692.3	11117.9	10574.8	5854.5
45°	11325.3	11355.1	11626.6	12159.7	12261.1	11985.0	11729.5	11750.9	11985.0	11377.2	6128.3
47.5°	10857.8	10912.7	11436.7	12428.2	13287.0	13482.2	12998.7	12970.5	12817.2	12026.2	6322.8
50°	9795.3	9845.7	10524.5	11991.1	13598.2	14911.5	14519.5	14436.4	13547.1	12414.4	6391.4
52.5°	8257.7	8318.8	8870.2	10615.2	13011.6	15549.1	15959.5	15890.1	14082.5	12445.0	6402.9
55°	5831.6	5905.6	6489.0	8135.7	11152.9	15041.9	16469.7	16449.1	14527.1	12364.1	6427.3
57.5°	3277.3	3330.7	3959.9	5215.3	8168.5	13101.6	15936.6	16073.1	14795.6	12223.8	6463.9
60°	1455.2	1469.7	1795.4	2596.2	4782.1	10012.7	14410.4	14640.8	14565.3	12036.1	6525.6
62.5°	806.9	794.7	794.7	1079.2	2078.4	6198.5	11750.9	12131.5	13582.1	11814.2	6528.7
65°	632.3	620.8	588.0	592.6	791.7	2751.1	8137.2	8813.7	11715.1	11163.6	6309.0
67.5°	536.2	526.3	493.5	480.5	491.9	907.6	4470.9	5173.4	8889.3	9472.7	5464.7
70°	453.0	446.2	429.4	413.4	384.4	448.5	1710.7	2188.2	5477.7	6301.4	3730.4
72.5°	364.6	361.5	367.6	353.9	318.8	299.0	585.0	708.5	2460.5	2812.1	1536.8
75°	314.2	312.7	315.8	302.0	262.4	208.2	297.5	324.9	694.1	688.0	311.2
77.5°	204.4	206.7	261.6	255.5	225.8	138.8	154.1	166.3	210.5	157.9	94.6
80°	130.4	128.9	132.7	212.0	202.9	106.0	77.0	80.8	101.4	77.8	45.8
82.5°	79.3	77.8	86.9	99.2	102.2	74.0	47.3	48.1	63.3	50.3	24.4
85°	6.9	9.2	52.6	48.8	35.1	22.9	22.9	24.4	33.6	29.7	13.7
87.5°	0.0	0.0	9.2	13.7	7.6	8.4	8.4	9.2	13.0	13.0	6.9
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°	3955.4	3955.4	3955.4	3955.4	3955.4	3955.4	3955.4	3955.4	3955.4	3955.4	3955.4
2.5°	3958.4	3879.1	3718.9	3564.9	3434.4	3308.6	3165.2	3023.3	2957.0	2930.3	2902.8
5°	3965.3	3802.1	3471.8	3139.3	2794.5	2484.1	2219.5	1947.9	1812.2	1752.7	1725.2
7.5°	3974.4	3725.8	3191.9	2633.6	2078.4	1657.3	1289.7	1053.3	951.1	935.1	895.4
10°	3975.9	3633.5	2867.0	2075.3	1393.5	999.1	768.8	646.8	601.8	594.1	581.2
12.5°	3979.0	3524.4	2506.2	1536.8	929.0	668.1	556.0	515.6	503.4	502.6	502.6
15°	3988.2	3410.0	2131.7	1107.4	667.4	529.3	488.1	472.1	467.5	469.8	469.1
17.5°	3988.2	3275.0	1764.1	825.2	539.2	475.9	453.0	442.4	440.8	443.1	443.9
20°	3959.2	3111.0	1427.0	642.2	478.2	441.6	421.0	411.1	407.3	408.8	409.6
22.5°	3889.8	2909.7	1152.4	531.6	437.8	410.3	388.2	373.0	366.9	367.6	367.6
25°	3781.5	2671.0	901.5	459.9	405.0	376.8	350.8	333.3	329.5	328.7	330.2
27.5°	3642.6	2407.1	717.7	405.0	366.1	339.4	313.5	299.0	295.9	296.7	297.5
30°	3506.1	2133.3	565.9	358.5	322.6	297.5	277.6	270.8	270.8	273.0	273.8
32.5°	3381.0	1870.1	447.7	318.0	283.7	260.8	249.4	248.6	252.5	254.0	254.7
35°	3273.5	1626.8	370.7	286.8	253.2	233.4	229.6	232.6	237.2	240.3	241.0
37.5°	3197.2	1409.5	324.1	260.8	229.6	213.6	212.8	218.9	225.0	231.9	233.4
40°	3165.2	1225.7	292.1	238.0	210.5	198.3	196.0	204.4	215.8	225.8	227.3
42.5°	3138.5	1075.4	264.7	215.8	195.3	177.7	176.9	187.6	201.4	211.3	213.6
45°	3115.6	954.9	239.5	192.2	175.4	152.5	154.8	168.6	179.2	189.9	192.2
47.5°	3068.3	855.7	212.0	167.0	144.9	130.4	135.0	147.2	155.6	171.6	173.9
50°	2983.7	774.9	183.8	136.5	118.2	112.9	119.7	128.1	138.8	152.5	154.1
52.5°	2926.5	713.9	159.4	114.4	97.6	99.2	106.0	109.1	115.2	120.5	119.0
55°	2893.7	680.3	139.6	99.2	83.1	87.7	89.2	85.4	82.4	77.0	74.7
57.5°	2889.9	649.8	124.3	86.2	73.2	75.5	70.2	57.2	46.5	40.4	38.9
60°	2883.8	612.4	112.1	72.5	64.8	61.8	50.3	31.3	22.1	20.6	20.6
62.5°	2817.4	554.5	103.0	61.0	54.9	46.5	29.0	14.5	12.2	13.0	13.0
65°	2606.1	473.6	93.8	49.6	43.5	33.6	14.5	8.4	4.6	5.3	5.3
67.5°	2215.6	377.5	83.9	38.1	32.8	21.4	8.4	3.8	0.0	0.0	0.0
70°	1483.4	234.1	70.9	26.7	21.4	13.0	6.1	0.8	0.0	0.0	0.0
72.5°	569.0	126.6	57.2	16.0	13.7	9.2	3.8	0.0	0.0	0.0	0.0
75°	128.1	83.1	39.7	11.4	9.9	6.1	1.5	0.0	0.0	0.0	0.0
77.5°	48.8	60.3	22.9	7.6	6.9	3.8	0.0	0.0	0.0	0.0	0.0
80°	23.6	35.8	10.7	4.6	3.8	1.5	0.0	0.0	0.0	0.0	0.0
82.5°	12.2	13.7	4.6	2.3	1.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	6.9	6.9	2.3	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.8	2.3	0.8	0.8	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)