

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: P324759

Luminaire Tested: **GAN-SA5B-730-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324759
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-SA5B-730-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 800mA 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: 21294 lumens
Efficiency: N/A
Efficacy: 101.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

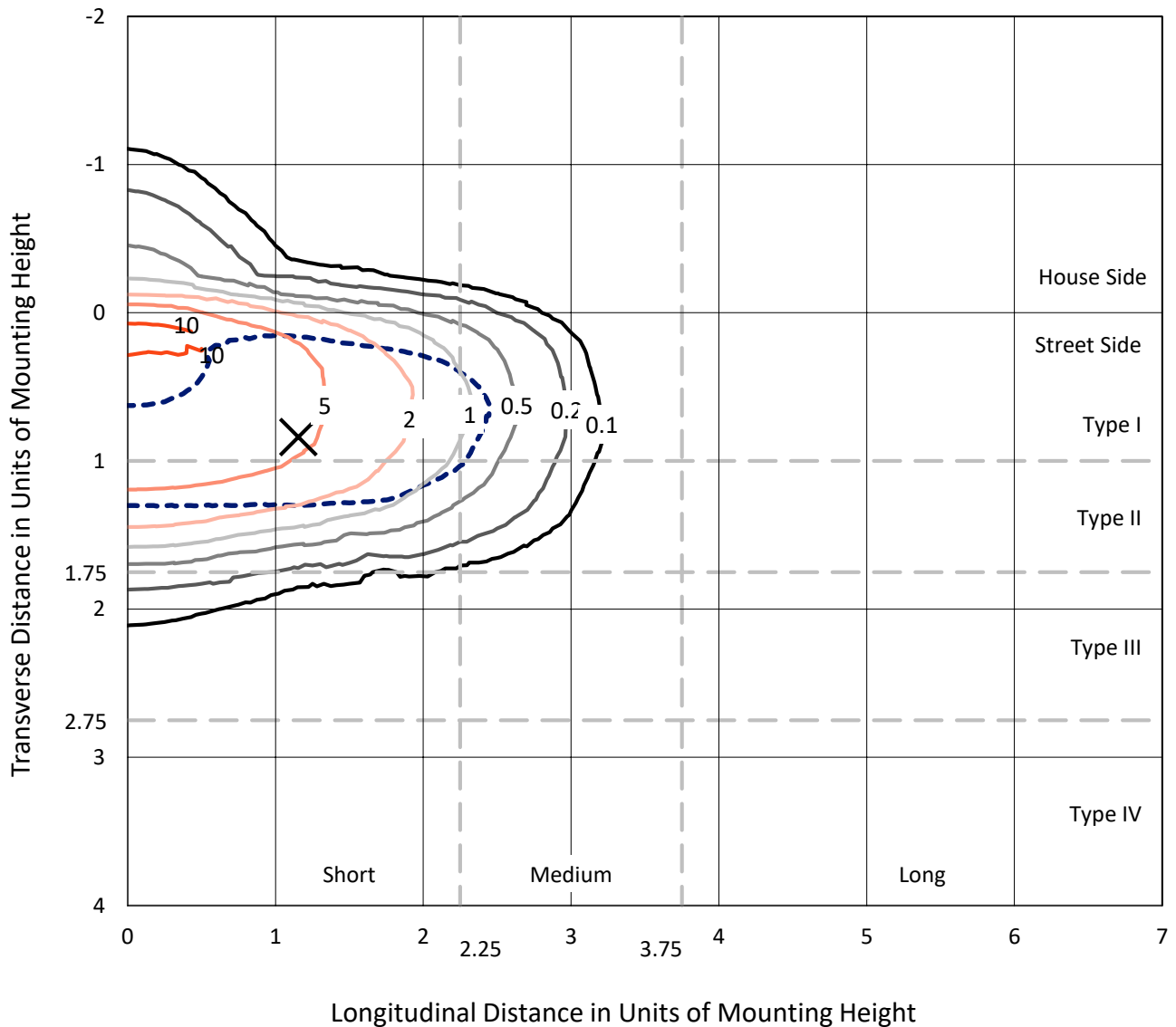
Input Watts (W): 210
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

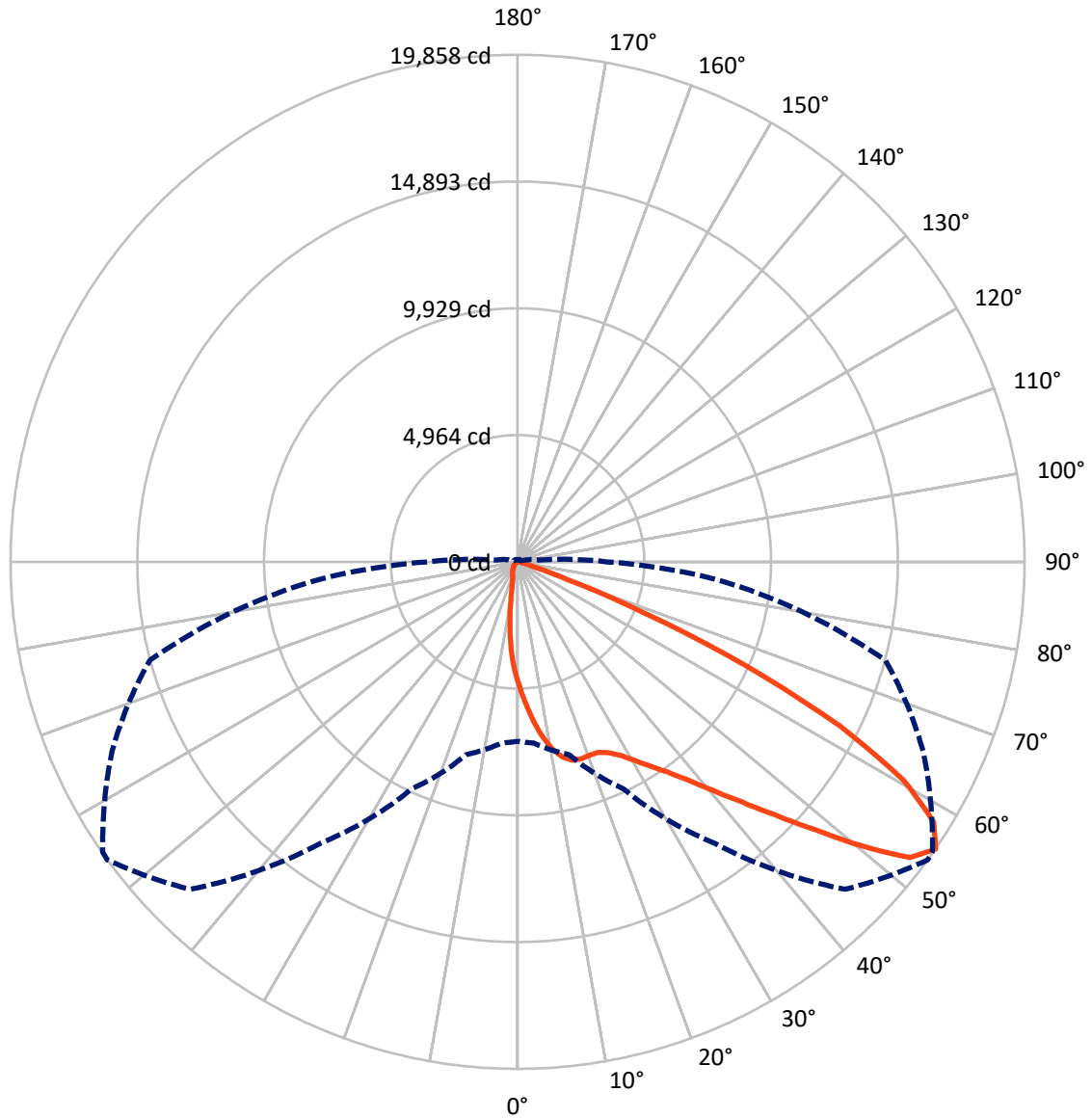
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.7 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
House Side	Lumens	1062.4	0.0	1062.4
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	20231.6	0.0	20231.6
	% Fixture	95.0	0.0	95.0
Total	Lumens	21294.0	0.0	21294.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	439.2	2.1
10°-20°	1204.4	5.7
20°-30°	2056.4	9.7
30°-40°	3300.1	15.5
40°-50°	5273.6	24.8
50°-60°	5650.8	26.5
60°-70°	2901.3	13.6
70°-80°	439.5	2.1
80°-90°	28.6	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°	21294.0	100.0
0°-180°	21294.0	100.0

Coefficient of Utilization

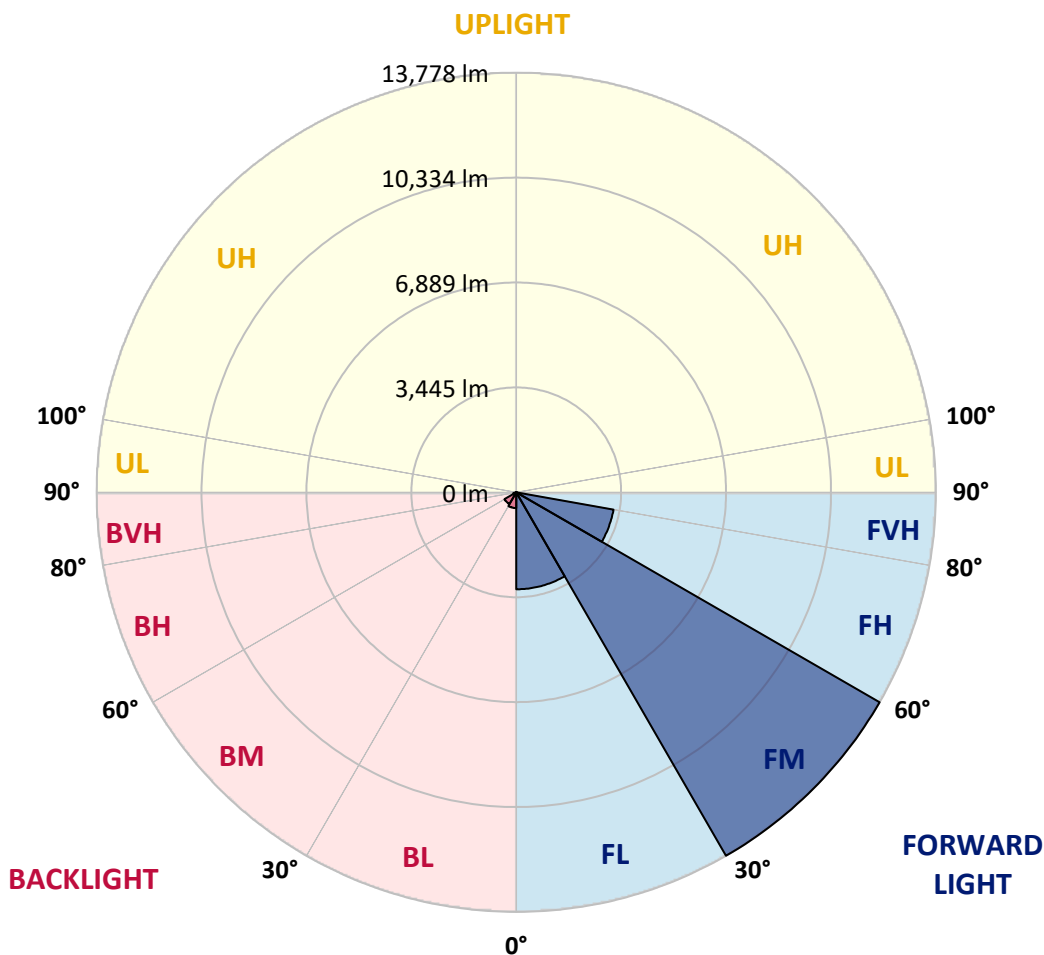


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3183.1	14.9			
FM (30°-60°)	13778.2	64.7			
FH (60°-80°)	3242.9	15.2			G2/5000
FVH (80°-90°)	27.5	0.1			G1/100
BL (0°-30°)	516.9	2.4	B2/1000		
BM (30°-60°)	446.4	2.1	B1/1000		
BH (60°-80°)	97.9	0.5	B0/110		G0/110
BVH (80°-90°)	1.2	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°	4769.0	4769.0	4769.0	4769.0	4769.0	4769.0	4769.0	4769.0	4769.0	4769.0	4769.0
2.5°	5984.7	5895.5	5898.3	5857.8	5709.7	5593.9	5473.4	5444.9	5257.3	5060.5	4871.1
5°	7019.2	6954.0	6938.3	6860.2	6654.2	6436.2	6202.6	6148.4	5781.5	5378.7	4982.3
7.5°	7550.8	7551.7	7538.8	7510.3	7381.6	7170.1	6885.0	6828.0	6328.6	5724.5	5098.2
10°	7396.3	7431.2	7502.9	7597.7	7696.1	7669.4	7455.1	7403.6	6861.1	6090.5	5227.0
12.5°	7035.8	7040.4	7120.4	7275.8	7559.0	7849.6	7853.3	7835.8	7369.6	6473.0	5368.6
15°	6856.5	6873.9	6903.4	7003.6	7272.1	7737.4	8070.3	8095.2	7835.8	6879.5	5519.4
17.5°	6974.2	6999.0	6974.2	6986.1	7141.5	7560.0	8108.0	8171.5	8243.2	7281.3	5661.9
20°	7293.3	7316.3	7272.1	7223.4	7253.7	7508.5	8081.4	8166.9	8562.3	7638.1	5781.5
22.5°	7723.6	7732.8	7665.7	7585.7	7563.6	7683.2	8103.4	8191.7	8818.0	7960.9	5856.9
25°	8197.2	8205.5	8121.8	8029.9	7977.5	8026.2	8284.6	8350.8	9043.3	8269.0	5900.1
27.5°	8713.1	8720.5	8615.7	8502.5	8441.8	8443.7	8583.5	8654.3	9283.3	8620.3	5935.0
30°	9258.4	9254.8	9158.2	9001.0	8923.7	8921.9	9013.8	9085.6	9630.9	9070.9	5982.9
32.5°	9870.9	9863.5	9726.5	9531.6	9444.2	9457.1	9538.9	9580.3	10062.2	9550.9	6068.4
35°	10677.4	10656.2	10449.3	10207.5	10046.5	10041.9	10110.9	10144.0	10612.1	10132.1	6210.9
37.5°	11723.9	11704.6	11424.1	11072.8	10846.6	10762.0	10843.8	10886.1	11396.5	10877.8	6439.9
40°	12755.7	12736.3	12569.9	12248.0	11899.5	11696.3	11760.7	11805.7	12375.9	11782.7	6728.7
42.5°	13467.4	13484.0	13541.9	13568.6	13242.1	12815.4	12844.9	12891.8	13404.9	12750.1	7058.8
45°	13655.0	13690.9	14018.3	14661.0	14783.4	14450.5	14142.4	14168.1	14450.5	13717.5	7388.9
47.5°	13091.3	13157.5	13789.3	14984.7	16020.2	16255.6	15672.6	15638.6	15453.7	14500.1	7623.4
50°	11810.3	11871.0	12689.4	14457.8	16395.4	17978.9	17506.3	17406.0	16333.8	14968.2	7706.2
52.5°	9956.4	10030.0	10694.8	12798.9	15688.2	18747.7	19242.5	19158.8	16979.3	15005.0	7720.0
55°	7031.2	7120.4	7823.9	9809.3	13447.2	18136.2	19857.7	19832.8	17515.5	14907.5	7749.4
57.5°	3951.5	4015.9	4774.5	6288.2	9848.8	15796.7	19214.9	19379.5	17839.2	14738.3	7793.5
60°	1754.6	1772.1	2164.7	3130.3	5765.8	12072.4	17374.8	17652.5	17561.4	14512.1	7868.0
62.5°	972.9	958.2	958.2	1301.2	2505.9	7473.5	14168.1	14627.0	16376.1	14244.5	7871.7
65°	762.3	748.5	709.0	714.5	954.5	3317.0	9811.1	10626.8	14124.9	13460.1	7606.9
67.5°	646.5	634.5	595.0	579.3	593.1	1094.3	5390.6	6237.6	10717.8	11421.3	6588.9
70°	546.2	538.0	517.7	498.4	463.5	540.7	2062.6	2638.3	6604.5	7597.7	4497.7
72.5°	439.6	435.9	443.2	426.7	384.4	360.5	705.3	854.3	2966.6	3390.5	1853.0
75°	378.9	377.0	380.7	364.2	316.3	251.0	358.6	391.7	836.8	829.5	375.2
77.5°	246.5	249.2	315.4	308.1	272.2	167.4	185.8	200.5	253.8	190.4	114.0
80°	157.3	155.4	160.0	255.6	244.6	127.8	92.9	97.5	122.3	93.8	55.2
82.5°	95.6	93.8	104.8	119.5	123.2	89.2	57.0	57.9	76.3	60.7	29.4
85°	8.3	11.0	63.5	58.9	42.3	27.6	27.6	29.4	40.5	35.9	16.6
87.5°	0.0	0.0	11.0	16.6	9.2	10.1	10.1	11.0	15.6	15.6	8.3
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°	4769.0	4769.0	4769.0	4769.0	4769.0	4769.0	4769.0	4769.0	4769.0	4769.0	4769.0
2.5°	4772.7	4677.0	4483.9	4298.2	4140.9	3989.2	3816.3	3645.3	3565.3	3533.1	3500.0
5°	4781.0	4584.2	4186.0	3785.0	3369.4	2995.1	2676.0	2348.6	2184.9	2113.2	2080.1
7.5°	4792.0	4492.2	3848.5	3175.3	2505.9	1998.3	1555.0	1270.0	1146.7	1127.4	1079.6
10°	4793.8	4380.9	3456.7	2502.2	1680.1	1204.7	926.9	779.8	725.6	716.4	700.7
12.5°	4797.5	4249.4	3021.8	1853.0	1120.1	805.6	670.4	621.6	606.9	606.0	606.0
15°	4808.5	4111.5	2570.3	1335.2	804.6	638.2	588.5	569.2	563.7	566.5	565.5
17.5°	4808.5	3948.7	2127.0	995.0	650.2	573.8	546.2	533.4	531.5	534.3	535.2
20°	4773.6	3751.0	1720.6	774.3	576.6	532.4	507.6	495.7	491.1	492.9	493.8
22.5°	4689.9	3508.2	1389.5	641.0	527.8	494.7	468.1	449.7	442.3	443.2	443.2
25°	4559.3	3220.4	1087.0	554.5	488.3	454.3	423.0	401.9	397.3	396.3	398.2
27.5°	4392.0	2902.2	865.3	488.3	441.4	409.2	378.0	360.5	356.8	357.7	358.6
30°	4227.4	2572.1	682.3	432.2	389.0	358.6	334.7	326.5	326.5	329.2	330.1
32.5°	4076.5	2254.8	539.8	383.5	342.1	314.5	300.7	299.8	304.4	306.2	307.1
35°	3946.9	1961.5	446.9	345.8	305.3	281.4	276.8	280.5	286.0	289.7	290.6
37.5°	3854.9	1699.4	390.8	314.5	276.8	257.5	256.6	263.9	271.3	279.6	281.4
40°	3816.3	1477.8	352.2	286.9	253.8	239.1	236.3	246.5	260.2	272.2	274.0
42.5°	3784.1	1296.6	319.1	260.2	235.4	214.3	213.3	226.2	242.8	254.7	257.5
45°	3756.5	1151.3	288.8	231.7	211.5	183.9	186.7	203.2	216.1	229.0	231.7
47.5°	3699.5	1031.8	255.6	201.4	174.7	157.3	162.8	177.5	187.6	206.9	209.7
50°	3597.4	934.3	221.6	164.6	142.5	136.1	144.4	154.5	167.4	183.9	185.8
52.5°	3528.5	860.7	192.2	137.9	117.7	119.5	127.8	131.5	138.9	145.3	143.5
55°	3488.9	820.3	168.3	119.5	100.2	105.8	107.6	103.0	99.3	92.9	90.1
57.5°	3484.3	783.5	149.9	103.9	88.3	91.0	84.6	69.0	56.1	48.7	46.9
60°	3477.0	738.4	135.2	87.4	78.2	74.5	60.7	37.7	26.7	24.8	24.8
62.5°	3397.0	668.5	124.1	73.6	66.2	56.1	34.9	17.5	14.7	15.6	15.6
65°	3142.2	571.1	113.1	59.8	52.4	40.5	17.5	10.1	5.5	6.4	6.4
67.5°	2671.4	455.2	101.2	46.0	39.5	25.7	10.1	4.6	0.0	0.0	0.0
70°	1788.6	282.3	85.5	32.2	25.7	15.6	7.4	0.9	0.0	0.0	0.0
72.5°	686.0	152.7	69.0	19.3	16.6	11.0	4.6	0.0	0.0	0.0	0.0
75°	154.5	100.2	47.8	13.8	12.0	7.4	1.8	0.0	0.0	0.0	0.0
77.5°	58.9	72.6	27.6	9.2	8.3	4.6	0.0	0.0	0.0	0.0	0.0
80°	28.5	43.2	12.9	5.5	4.6	1.8	0.0	0.0	0.0	0.0	0.0
82.5°	14.7	16.6	5.5	2.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	8.3	8.3	2.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.6	2.8	0.9	0.9	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)