

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: P324750

Luminaire Tested: **GAN-SA6A-730-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324750
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-SA6A-730-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 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: 20780 lumens
Efficiency: N/A
Efficacy: 107.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

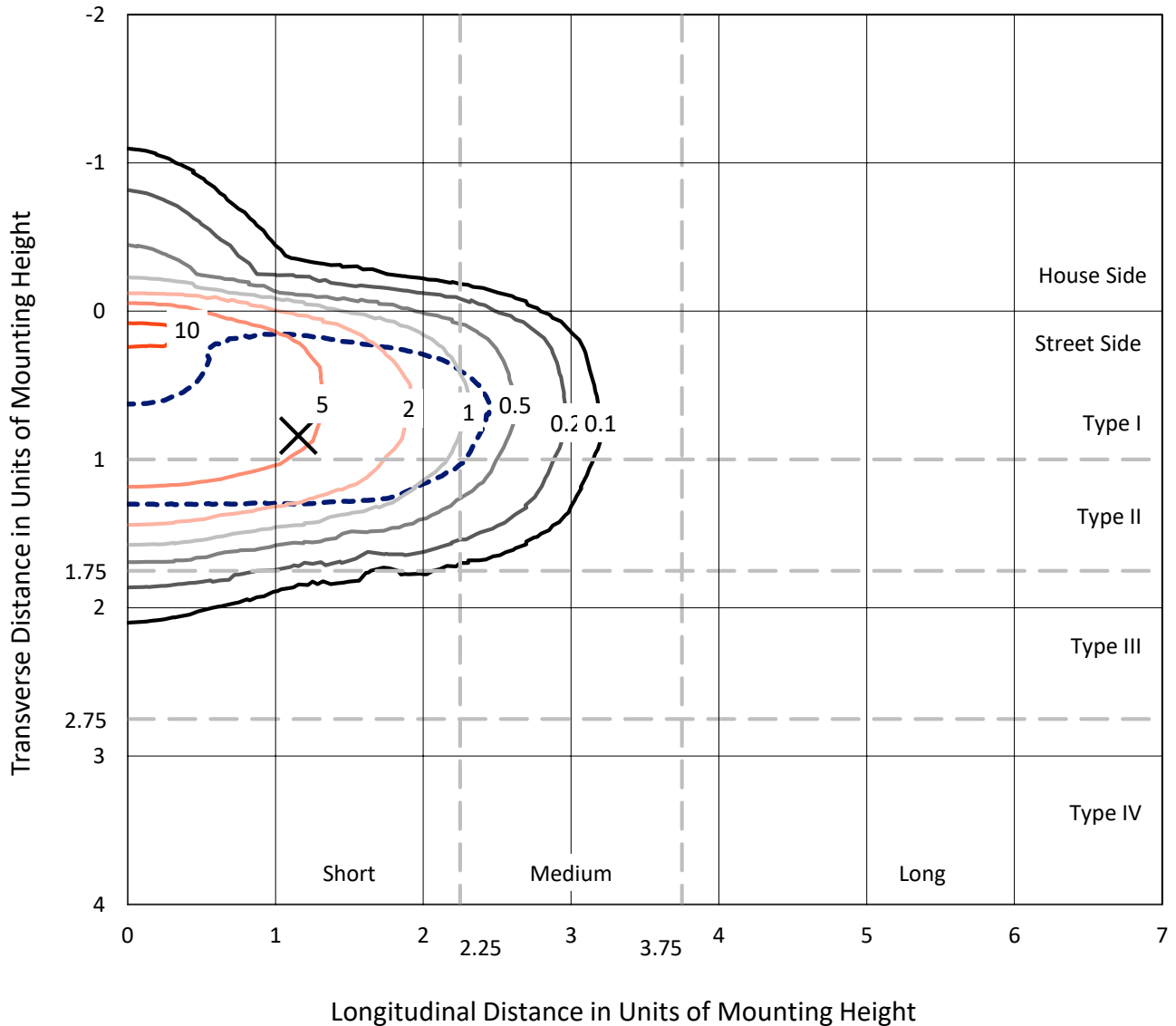
Input Watts (W): 193
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

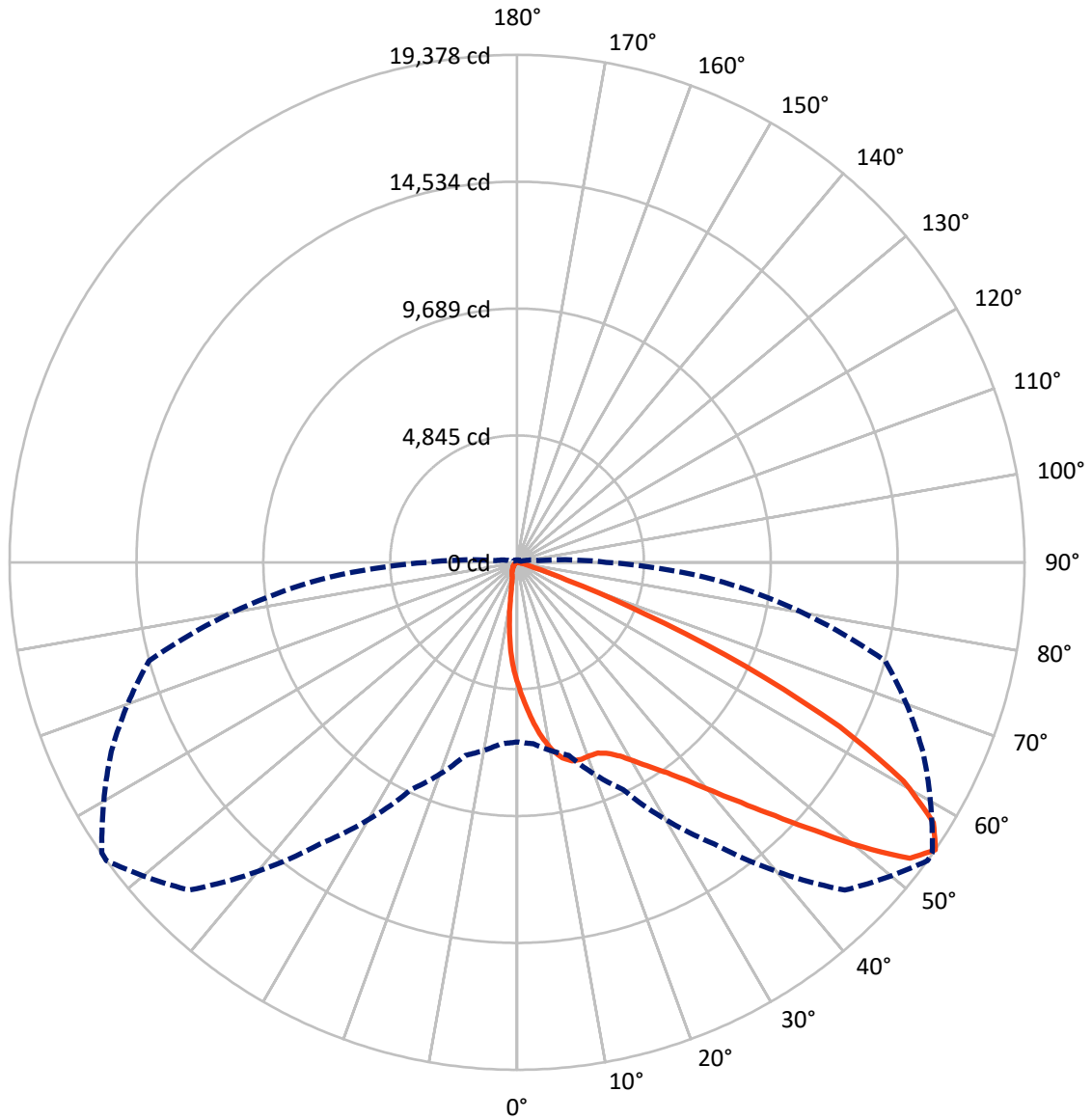
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.4 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	1036.8	0.0	1036.8
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	19743.2	0.0	19743.2
	% Fixture	95.0	0.0	95.0
Total	Lumens	20780.0	0.0	20780.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	428.6	2.1
10°-20°	1175.4	5.7
20°-30°	2006.7	9.7
30°-40°	3220.5	15.5
40°-50°	5146.3	24.8
50°-60°	5514.4	26.5
60°-70°	2831.3	13.6
70°-80°	428.9	2.1
80°-90°	27.9	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°	20780.0	100.0
0°-180°	20780.0	100.0

Coefficient of Utilization

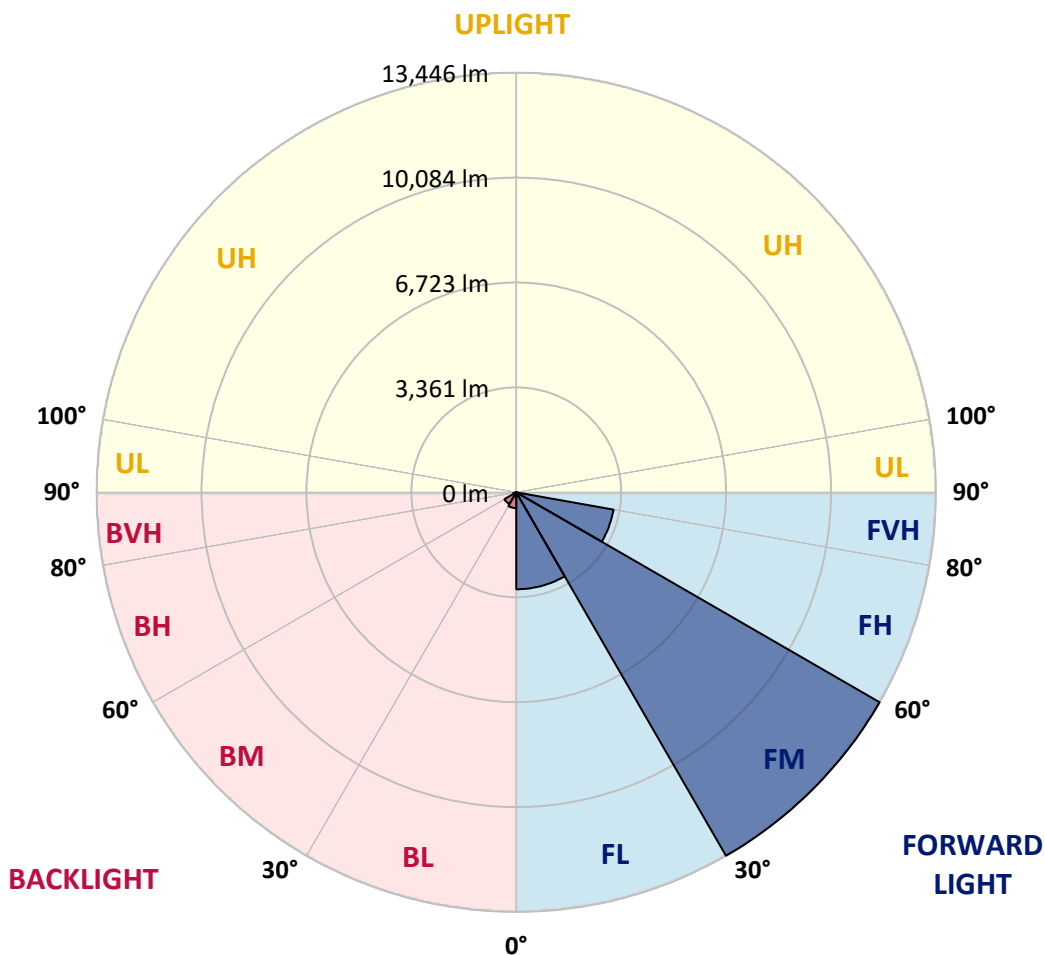


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3106.3	14.9			
FM (30°-60°)	13445.6	64.7			
FH (60°-80°)	3164.6	15.2			G2/5000
FVH (80°-90°)	26.8	0.1			G1/100
BL (0°-30°)	504.4	2.4	B2/1000		
BM (30°-60°)	435.7	2.1	B1/1000		
BH (60°-80°)	95.6	0.5	B0/110		G0/110
BVH (80°-90°)	1.1	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°	4653.9	4653.9	4653.9	4653.9	4653.9	4653.9	4653.9	4653.9	4653.9	4653.9	4653.9
2.5°	5840.2	5753.2	5755.9	5716.4	5571.9	5458.8	5341.3	5313.5	5130.4	4938.4	4753.5
5°	6849.8	6786.1	6770.8	6694.6	6493.5	6280.9	6052.9	6000.0	5641.9	5248.9	4862.1
7.5°	7368.5	7369.4	7356.8	7329.0	7203.4	6997.0	6718.8	6663.2	6175.9	5586.3	4975.2
10°	7217.7	7251.8	7321.8	7414.3	7510.3	7484.3	7275.2	7224.9	6695.5	5943.4	5100.8
12.5°	6866.0	6870.4	6948.5	7100.2	7376.6	7660.2	7663.7	7646.7	7191.7	6316.8	5239.0
15°	6691.0	6708.0	6736.7	6834.6	7096.6	7550.7	7875.5	7899.8	7646.7	6713.4	5386.2
17.5°	6805.8	6830.1	6805.8	6817.5	6969.2	7377.5	7912.3	7974.2	8044.2	7105.6	5525.3
20°	7117.2	7139.7	7096.6	7049.0	7078.6	7327.2	7886.3	7969.8	8355.6	7453.8	5641.9
22.5°	7537.2	7546.2	7480.7	7402.6	7381.1	7497.7	7907.8	7994.0	8605.1	7768.7	5715.5
25°	7999.4	8007.4	7925.8	7836.0	7784.9	7832.5	8084.6	8149.2	8825.0	8069.4	5757.7
27.5°	8502.8	8510.0	8407.7	8297.3	8238.1	8239.9	8376.3	8445.4	9059.2	8412.2	5791.8
30°	9035.0	9031.4	8937.1	8783.7	8708.3	8706.5	8796.3	8866.3	9398.4	8851.9	5838.4
32.5°	9632.6	9625.4	9491.7	9301.5	9216.2	9228.8	9308.7	9349.1	9819.3	9320.3	5921.9
35°	10419.6	10399.0	10197.1	9961.1	9804.0	9799.5	9866.8	9899.2	10355.9	9887.5	6061.0
37.5°	11440.9	11422.0	11148.3	10805.5	10584.8	10502.2	10582.1	10623.4	11121.4	10615.3	6284.5
40°	12447.8	12428.9	12266.5	11952.4	11612.3	11414.0	11476.8	11520.7	12077.1	11498.3	6566.2
42.5°	13142.3	13158.5	13215.0	13241.1	12922.5	12506.1	12534.8	12580.6	13081.3	12442.4	6888.4
45°	13325.4	13360.4	13679.9	14307.2	14426.5	14101.7	13801.0	13826.2	14101.7	13386.4	7210.6
47.5°	12775.3	12839.9	13456.4	14623.0	15633.5	15863.2	15294.3	15261.1	15080.7	14150.1	7439.4
50°	11525.2	11584.5	12383.1	14108.8	15999.6	17545.0	17083.7	16985.9	15939.5	14606.9	7520.2
52.5°	9716.1	9787.9	10436.7	12489.9	15309.5	18295.2	18778.0	18696.3	16569.5	14642.8	7533.6
55°	6861.5	6948.5	7635.0	9572.5	13122.6	17698.4	19378.3	19354.1	17092.7	14547.7	7562.3
57.5°	3856.1	3918.9	4659.3	6136.4	9611.1	15415.4	18751.1	18911.7	17408.5	14382.5	7605.4
60°	1712.2	1729.3	2112.5	3054.7	5626.7	11781.0	16955.4	17226.4	17137.5	14161.8	7678.1
62.5°	949.4	935.1	935.1	1269.8	2445.4	7293.1	13826.2	14274.0	15980.8	13900.6	7681.7
65°	743.9	730.5	691.9	697.3	931.5	3236.9	9574.3	10370.3	13784.0	13135.2	7423.2
67.5°	630.9	619.2	580.6	565.4	578.8	1067.9	5260.5	6087.0	10459.1	11145.6	6429.8
70°	533.1	525.0	505.2	486.4	452.3	527.7	2012.9	2574.6	6445.1	7414.3	4389.2
72.5°	429.0	425.4	432.5	416.4	375.1	351.8	688.3	833.7	2895.0	3308.7	1808.2
75°	369.7	367.9	371.5	355.4	308.7	245.0	350.0	382.3	816.6	809.4	366.1
77.5°	240.5	243.2	307.8	300.6	265.6	163.3	181.3	195.6	247.7	185.8	111.3
80°	153.5	151.7	156.1	249.5	238.7	124.7	90.6	95.1	119.4	91.5	53.8
82.5°	93.3	91.5	102.3	116.7	120.3	87.0	55.6	56.5	74.5	59.2	28.7
85°	8.1	10.8	61.9	57.4	41.3	26.9	26.9	28.7	39.5	35.0	16.2
87.5°	0.0	0.0	10.8	16.2	9.0	9.9	9.9	10.8	15.3	15.3	8.1
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°	4653.9	4653.9	4653.9	4653.9	4653.9	4653.9	4653.9	4653.9	4653.9	4653.9	4653.9
2.5°	4657.5	4564.1	4375.7	4194.4	4041.0	3892.9	3724.2	3557.3	3479.2	3447.8	3415.5
5°	4665.6	4473.5	4084.9	3693.7	3288.1	2922.8	2611.4	2291.9	2132.2	2062.2	2029.9
7.5°	4676.3	4383.8	3755.6	3098.7	2445.4	1950.0	1517.5	1239.3	1119.1	1100.2	1053.5
10°	4678.1	4275.2	3373.3	2441.8	1639.5	1175.6	904.6	761.0	708.0	699.1	683.8
12.5°	4681.7	4146.9	2948.8	1808.2	1093.0	786.1	654.2	606.6	592.3	591.4	591.4
15°	4692.5	4012.2	2508.2	1303.0	785.2	622.8	574.3	555.5	550.1	552.8	551.9
17.5°	4692.5	3853.4	2075.7	971.0	634.5	560.0	533.1	520.5	518.7	521.4	522.3
20°	4658.4	3660.5	1679.0	755.6	562.7	519.6	495.4	483.7	479.2	481.0	481.9
22.5°	4576.7	3423.6	1356.0	625.5	515.1	482.8	456.8	438.8	431.6	432.5	432.5
25°	4449.3	3142.7	1060.7	541.1	476.5	443.3	412.8	392.2	387.7	386.8	388.6
27.5°	4286.0	2832.2	844.4	476.5	430.7	399.3	368.8	351.8	348.2	349.1	350.0
30°	4125.3	2510.0	665.9	421.8	379.6	350.0	326.7	318.6	318.6	321.3	322.2
32.5°	3978.1	2200.4	526.8	374.2	333.8	306.9	293.4	292.6	297.0	298.8	299.7
35°	3851.6	1914.1	436.1	337.4	297.9	274.6	270.1	273.7	279.1	282.7	283.6
37.5°	3761.9	1658.4	381.4	306.9	270.1	251.3	250.4	257.6	264.7	272.8	274.6
40°	3724.2	1442.1	343.7	280.0	247.7	233.3	230.6	240.5	254.0	265.6	267.4
42.5°	3692.8	1265.3	311.4	254.0	229.7	209.1	208.2	220.8	236.9	248.6	251.3
45°	3665.9	1123.5	281.8	226.1	206.4	179.5	182.2	198.3	210.9	223.5	226.1
47.5°	3610.2	1006.9	249.5	196.5	170.5	153.5	158.8	173.2	183.1	201.9	204.6
50°	3510.6	911.8	216.3	160.6	139.1	132.8	140.9	150.8	163.3	179.5	181.3
52.5°	3443.3	840.0	187.6	134.6	114.9	116.7	124.7	128.3	135.5	141.8	140.0
55°	3404.7	800.5	164.2	116.7	97.8	103.2	105.0	100.5	96.9	90.6	87.9
57.5°	3400.2	764.6	146.3	101.4	86.1	88.8	82.6	67.3	54.7	47.6	45.8
60°	3393.0	720.6	131.9	85.3	76.3	72.7	59.2	36.8	26.0	24.2	24.2
62.5°	3315.0	652.4	121.1	71.8	64.6	54.7	34.1	17.1	14.4	15.3	15.3
65°	3066.4	557.3	110.4	58.3	51.2	39.5	17.1	9.9	5.4	6.3	6.3
67.5°	2606.9	444.2	98.7	44.9	38.6	25.1	9.9	4.5	0.0	0.0	0.0
70°	1745.4	275.5	83.5	31.4	25.1	15.3	7.2	0.9	0.0	0.0	0.0
72.5°	669.5	149.0	67.3	18.8	16.2	10.8	4.5	0.0	0.0	0.0	0.0
75°	150.8	97.8	46.7	13.5	11.7	7.2	1.8	0.0	0.0	0.0	0.0
77.5°	57.4	70.9	26.9	9.0	8.1	4.5	0.0	0.0	0.0	0.0	0.0
80°	27.8	42.2	12.6	5.4	4.5	1.8	0.0	0.0	0.0	0.0	0.0
82.5°	14.4	16.2	5.4	2.7	1.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	8.1	8.1	2.7	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.5	2.7	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)