

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: P192657

Luminaire Tested: **GAN-AF-09-LED-U-AFL-7030-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192657
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24297)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-09-LED-U-AFL-7030-600-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 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: 27759.5 lumens
Efficiency: N/A
Efficacy: 95.7 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 290
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: 28.75 FT

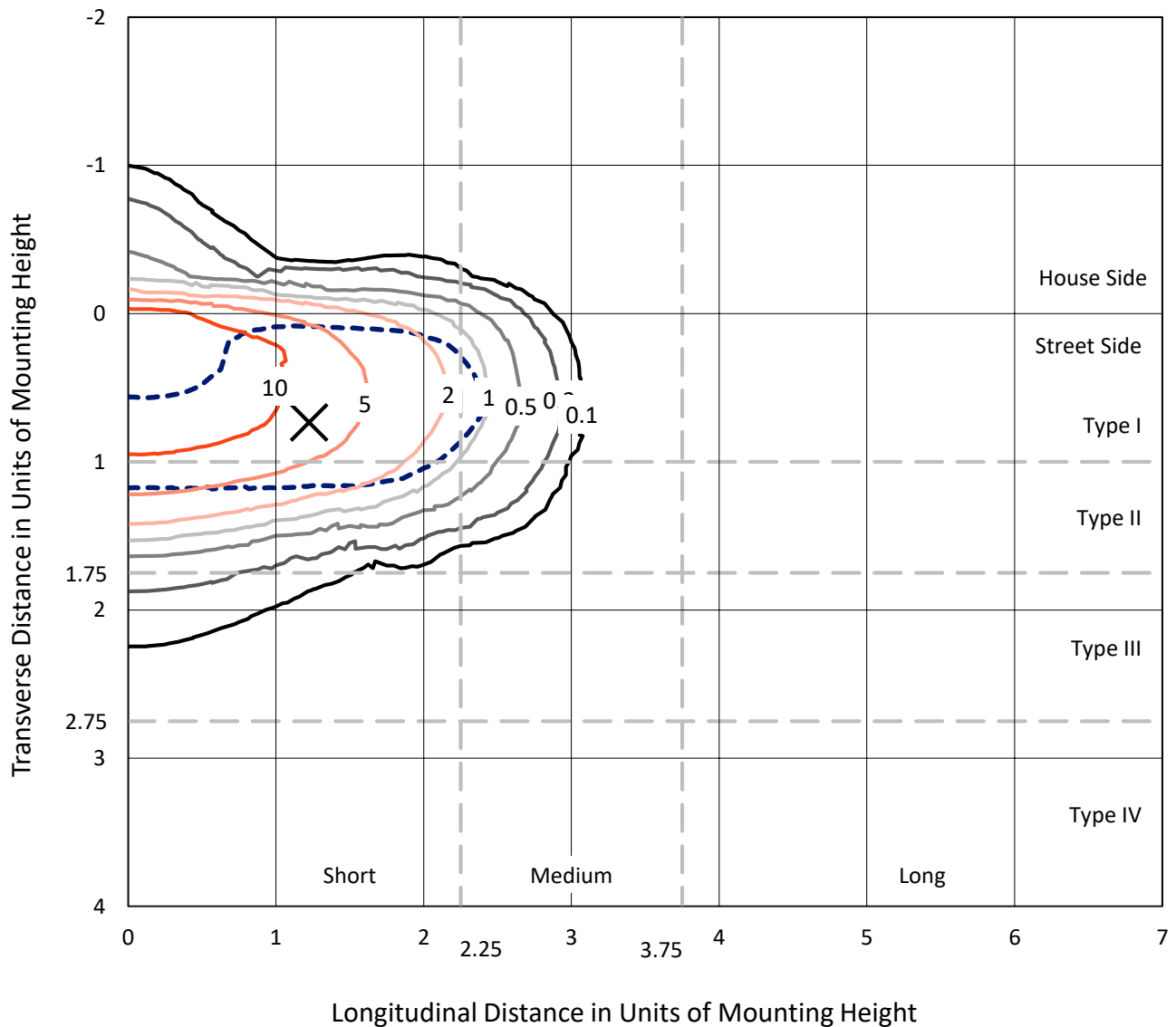


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

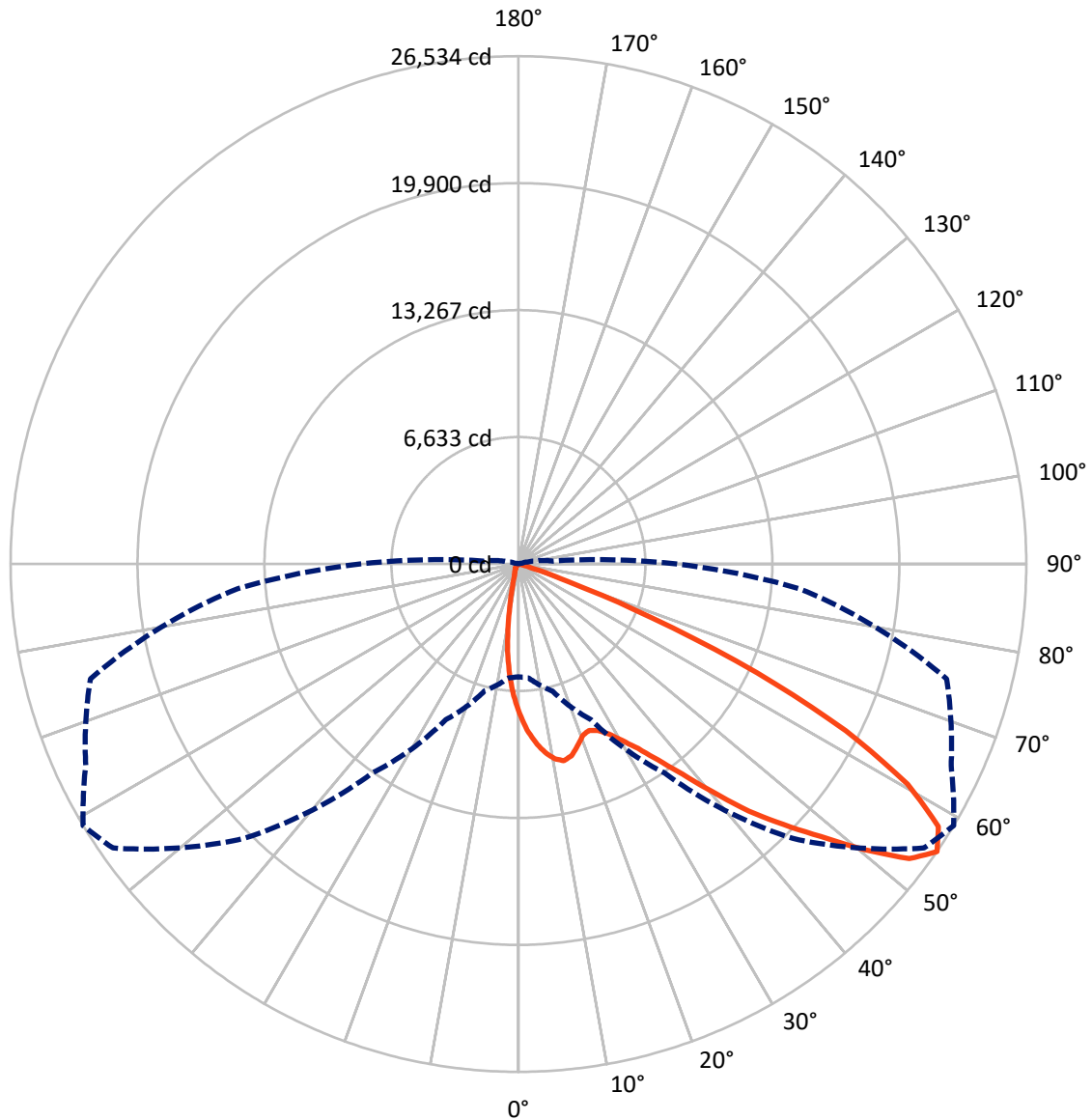


Based on 25 foot mounting height. Maximum calculated value = 15.6 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1550.5	0.0	1550.5
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	26209.0	0.0	26209.0
	% Fixture	94.4	0.0	94.4
Total	Lumens	27759.5	0.0	27759.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	654.5	2.4
10°-20°	1567.1	5.6
20°-30°	2666.6	9.6
30°-40°	4586.0	16.5
40°-50°	7080.3	25.5
50°-60°	7117.9	25.6
60°-70°	3650.1	13.1
70°-80°	395.6	1.4
80°-90°	41.4	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°	27759.5	100.0
0°-180°	27759.5	100.0

Coefficient of Utilization



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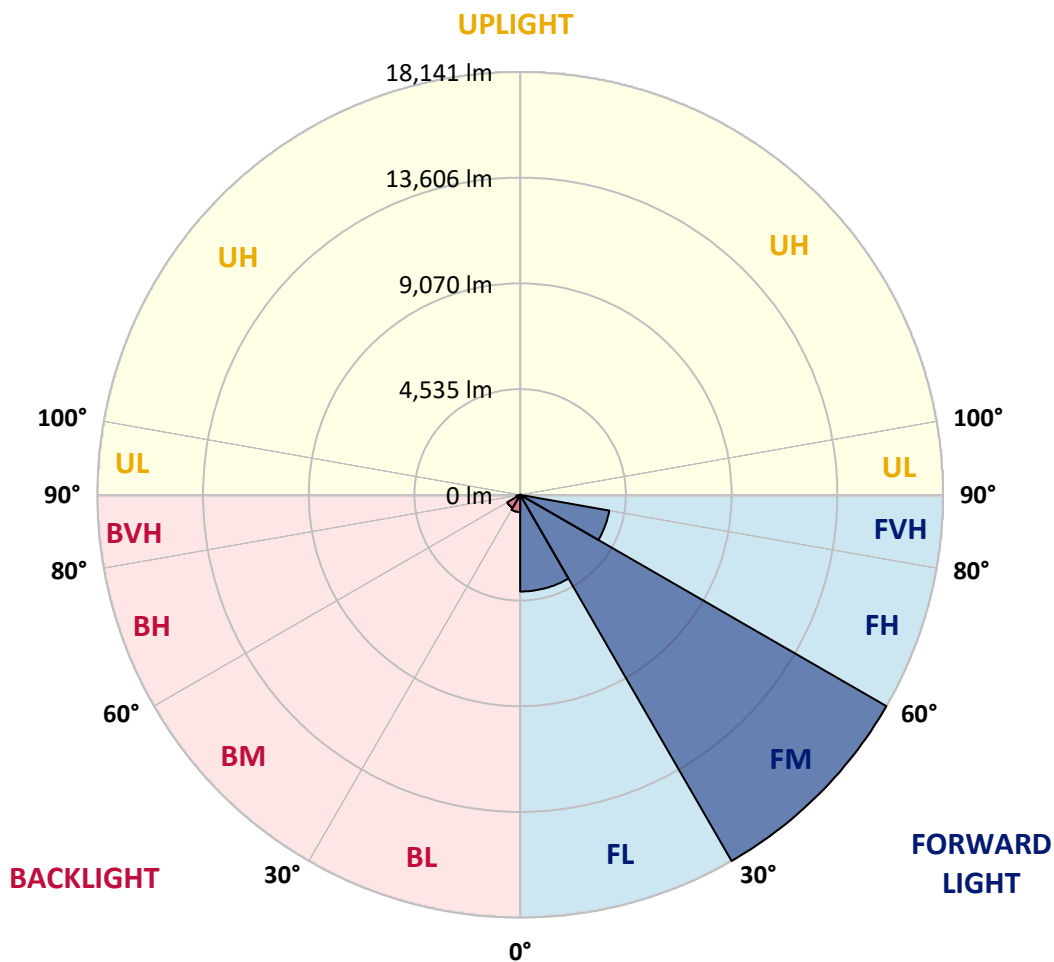
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4148.2	14.9			
FM	(30°-60°)	18140.7	65.3			
FH	(60°-80°)	3879.6	14.0			G2/5000
FVH	(80°-90°)	40.5	0.1			G1/100
BL	(0°-30°)	740.1	2.7	B2/1000		
BM	(30°-60°)	643.5	2.3	B1/1000		
BH	(60°-80°)	166.1	0.6	B1/500		G1/500
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: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	7814.2	7814.2	7814.2	7814.2	7814.2	7814.2	7814.2	7814.2	7814.2	7814.2	7814.2
2.5°	9245.9	9147.7	9118.2	9098.6	9008.4	8895.5	8741.4	8669.2	8521.9	8284.4	7992.8
5°	10093.0	10074.9	10009.4	9973.3	9876.7	9716.1	9470.4	9352.5	9118.2	8718.5	8195.9
7.5°	9722.7	9835.7	9925.8	10076.6	10266.5	10260.0	10053.6	9930.8	9668.7	9141.1	8421.9
10°	8292.6	8384.3	8531.7	8874.1	9571.9	10188.0	10430.4	10341.9	10132.2	9529.4	8639.9
12.5°	8012.4	8002.5	8028.8	8128.8	8494.1	9372.1	10366.5	10545.0	10502.4	9884.9	8846.2
15°	8161.4	8149.9	8146.8	8181.2	8269.7	8639.9	9886.6	10399.3	10728.6	10214.2	9021.5
17.5°	8579.2	8530.1	8503.8	8476.0	8449.8	8541.6	9309.9	9991.3	10762.9	10502.4	9167.4
20°	9295.1	9213.2	9116.6	8959.3	8811.9	8766.0	9067.4	9571.9	10640.1	10722.0	9262.4
22.5°	10194.6	10089.6	9922.6	9635.9	9336.1	9162.5	9186.9	9439.4	10456.6	10961.2	9306.6
25°	11205.3	11070.9	10848.2	10450.1	10009.4	9701.3	9540.8	9629.3	10373.1	11241.3	9357.4
27.5°	12288.1	12139.0	11847.4	11305.2	10805.5	10389.5	10061.8	10050.3	10515.5	11608.2	9439.4
30°	13361.1	13338.2	12958.1	12384.7	11723.0	11216.8	10744.9	10684.4	10913.7	12116.1	9601.4
32.5°	14792.9	14620.8	14155.6	13565.9	12802.6	12194.8	11636.1	11495.2	11524.6	12707.5	9852.1
35°	16598.2	16409.8	15754.5	14940.3	14086.9	13369.3	12751.7	12560.0	12488.0	13675.7	10274.7
37.5°	17764.6	17761.3	17350.2	16521.2	15605.5	14814.3	14142.5	13918.1	13772.3	14845.4	10930.1
40°	17795.7	17872.7	17926.8	17918.6	17266.6	16537.6	15941.3	15664.4	15325.4	16408.2	11776.9
42.5°	16840.6	17038.9	17515.6	18324.9	18711.5	18421.5	17918.6	17646.7	17142.1	18080.8	12809.0
45°	15549.8	15687.3	16521.2	18011.9	19494.6	20289.1	19905.7	19419.2	18754.1	19825.4	13734.7
47.5°	14971.5	14996.1	15535.0	17171.6	19553.5	21819.2	22051.8	21260.5	20218.7	21231.0	14458.8
50°	13243.2	13287.4	14031.2	15715.2	18862.2	22541.6	24207.6	23457.3	21815.9	22313.9	14722.4
52.5°	9981.5	10043.7	10987.4	13321.8	16961.9	22233.6	25750.8	25569.0	23565.5	22843.1	14737.2
55°	5889.3	5971.2	6872.2	8967.5	13341.4	20274.3	25865.5	26533.8	24946.5	23155.9	14714.3
57.5°	2750.5	2807.9	3323.8	4619.7	8297.4	16023.2	24138.8	25872.0	25708.2	23321.4	14876.4
60°	1461.3	1477.6	1602.2	2000.2	3749.9	10160.1	20769.1	23362.4	25013.6	23550.8	15074.7
62.5°	1117.2	1122.2	1115.6	1163.2	1575.9	4510.0	15698.8	19206.2	22217.3	23378.8	14855.2
65°	968.1	976.3	930.5	919.0	1010.7	1608.8	9326.3	13690.4	17458.3	21057.4	13359.4
67.5°	868.3	871.6	815.8	768.3	784.7	869.9	3679.5	7494.7	11555.8	15435.0	9683.4
70°	799.4	796.2	735.6	660.2	638.9	594.7	1169.6	2747.3	5522.4	7827.4	4503.4
72.5°	707.7	709.3	679.8	581.6	530.8	416.1	542.3	801.1	1648.0	2133.0	1055.0
75°	627.4	619.3	583.2	520.9	437.4	273.5	268.7	357.2	507.8	504.6	227.7
77.5°	453.8	445.6	457.0	427.5	335.9	176.9	134.3	172.0	206.4	199.8	63.9
80°	332.5	327.7	294.9	355.5	296.5	121.3	83.6	91.8	106.5	90.1	19.6
82.5°	227.7	226.0	208.0	196.5	168.7	73.8	52.5	57.4	68.9	50.8	9.9
85°	36.0	41.0	150.7	119.6	100.0	32.8	36.0	39.4	45.9	27.9	3.3
87.5°	0.0	0.0	70.5	62.3	19.6	13.1	21.3	23.0	23.0	14.7	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7814.2	7814.2	7814.2	7814.2	7814.2	7814.2	7814.2	7814.2	7814.2	7814.2	7814.2
2.5°	7843.7	7679.9	7376.7	7063.9	6774.0	6428.3	6190.7	6012.2	5805.8	5750.1	5871.3
5°	7897.7	7588.2	6936.1	6226.8	5560.1	4821.2	4256.0	3808.8	3404.2	3266.6	3391.1
7.5°	7982.9	7522.6	6459.4	5291.4	4131.5	2978.2	2188.7	1669.4	1338.4	1240.1	1292.5
10°	8068.1	7427.6	5907.3	4184.0	2598.1	1449.8	943.6	753.6	683.1	668.3	676.6
12.5°	8138.6	7299.8	5234.1	2974.9	1389.2	776.5	617.7	586.5	576.7	576.7	579.9
15°	8181.2	7106.6	4436.3	1892.2	799.4	586.5	538.9	529.2	529.2	530.8	534.1
17.5°	8176.2	6860.7	3563.1	1145.1	597.9	519.3	491.4	483.3	481.7	484.9	486.5
20°	8115.7	6539.7	2686.6	755.2	520.9	473.4	445.6	430.8	429.2	432.4	435.7
22.5°	8000.9	6143.2	1921.7	581.6	470.2	429.2	394.8	381.8	381.8	385.0	388.2
25°	7861.7	5658.3	1313.9	493.1	424.3	381.8	349.0	337.5	340.8	349.0	350.6
27.5°	7688.0	5112.8	892.8	422.7	368.6	334.3	309.6	301.4	309.6	321.1	324.4
30°	7539.0	4544.3	637.3	365.4	312.9	288.3	273.5	273.5	285.0	306.4	311.3
32.5°	7424.2	3994.0	491.4	322.8	271.9	250.6	242.4	250.6	268.7	290.0	294.9
35°	7409.5	3540.1	416.1	288.3	242.4	221.1	217.9	232.6	250.6	267.0	270.3
37.5°	7522.6	3120.8	375.2	260.5	216.3	196.5	193.3	211.3	229.3	249.0	253.9
40°	7737.2	2791.5	345.7	234.3	194.9	173.6	167.0	180.2	204.8	231.0	237.5
42.5°	8015.7	2519.5	312.9	208.0	173.6	144.1	135.9	150.7	176.9	204.8	212.9
45°	8281.1	2285.2	276.9	178.5	145.8	111.5	108.1	127.9	140.8	168.7	175.3
47.5°	8426.8	2078.8	245.8	145.8	113.1	90.1	90.1	95.0	108.1	140.8	147.4
50°	8377.8	1913.4	212.9	108.1	78.6	68.9	68.9	67.2	86.9	113.1	118.0
52.5°	8279.4	1818.4	183.4	83.6	54.1	49.1	44.2	49.1	60.6	72.1	73.8
55°	8264.7	1802.0	153.9	67.2	37.7	32.8	24.6	24.6	24.6	23.0	19.6
57.5°	8379.4	1828.2	129.4	54.1	27.9	21.3	13.1	0.0	0.0	0.0	0.0
60°	8497.3	1856.1	111.5	37.7	19.6	11.5	1.6	0.0	0.0	0.0	0.0
62.5°	8300.8	1793.8	93.4	23.0	14.7	4.9	0.0	0.0	0.0	0.0	0.0
65°	7291.6	1526.8	73.8	16.4	9.9	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	5186.5	1022.2	49.1	9.9	1.6	0.0	0.0	0.0	0.0	0.0	0.0
70°	2367.2	427.5	31.1	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	506.2	132.6	21.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	103.2	96.7	8.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	32.8	152.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	19.6	109.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	3.3	16.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	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)