

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: P324764

Luminaire Tested: **GAN-SA0B-730-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324764
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-SA0B-730-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 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: 42169 lumens
Efficiency: N/A
Efficacy: 100.6 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

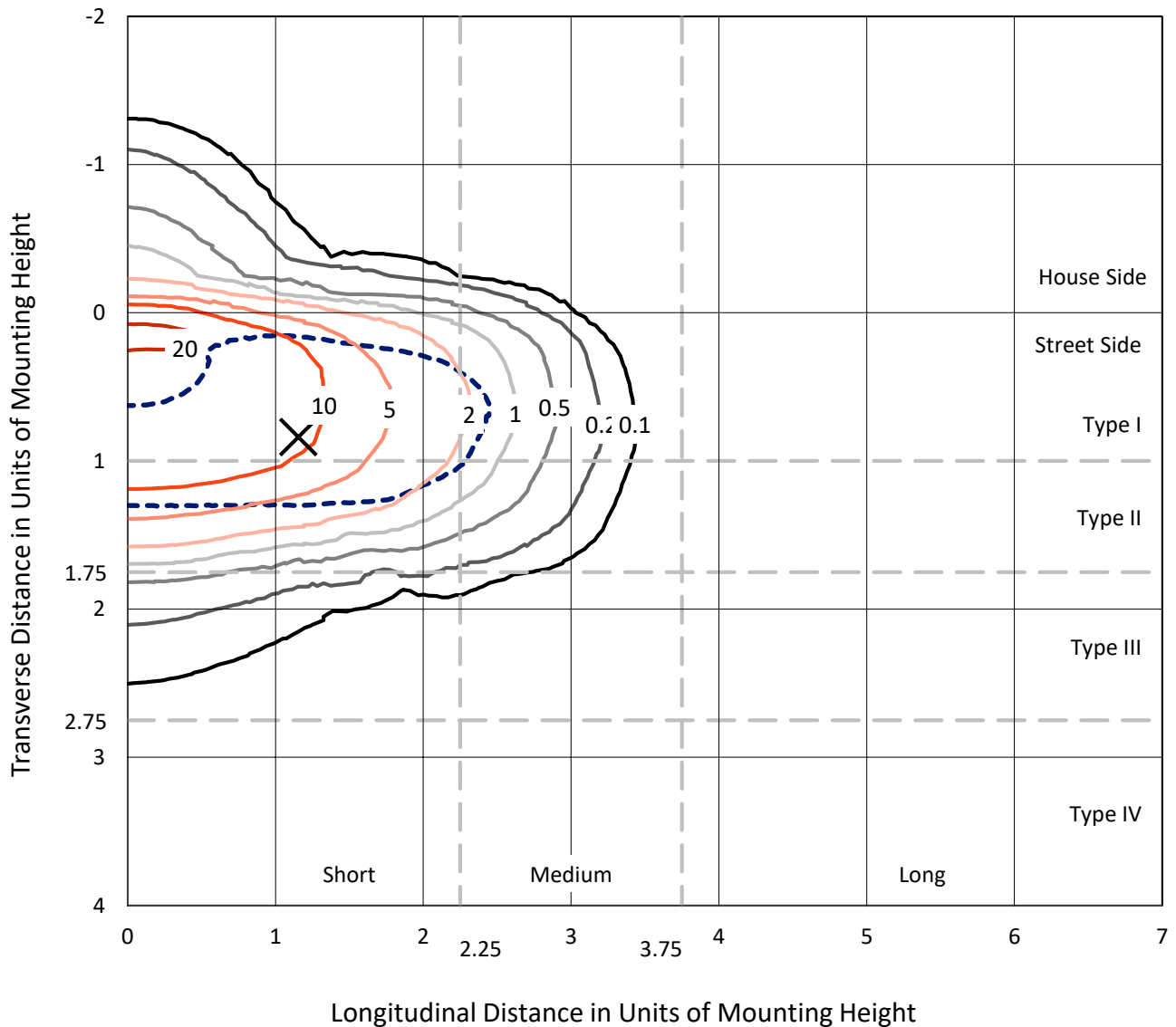
Input Watts (W): 419
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

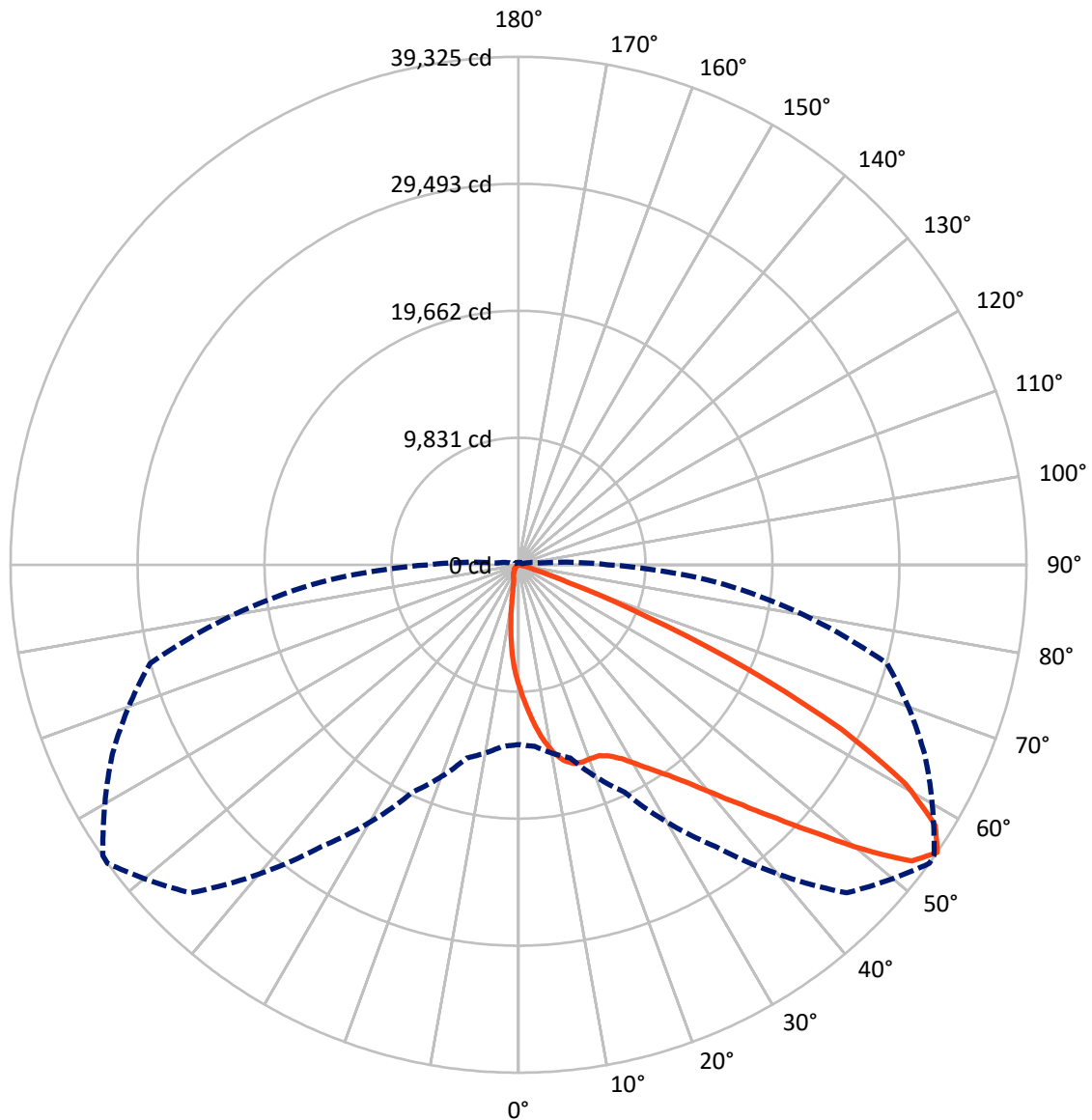
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.2 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	2103.9	0.0	2103.9
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	40065.1	0.0	40065.1
	% Fixture	95.0	0.0	95.0
Total	Lumens	42169.0	0.0	42169.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	869.7	2.1
10°-20°	2385.2	5.7
20°-30°	4072.3	9.7
30°-40°	6535.3	15.5
40°-50°	10443.5	24.8
50°-60°	11190.5	26.5
60°-70°	5745.5	13.6
70°-80°	870.3	2.1
80°-90°	56.7	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°	42169.0	100.0
0°-180°	42169.0	100.0

Coefficient of Utilization



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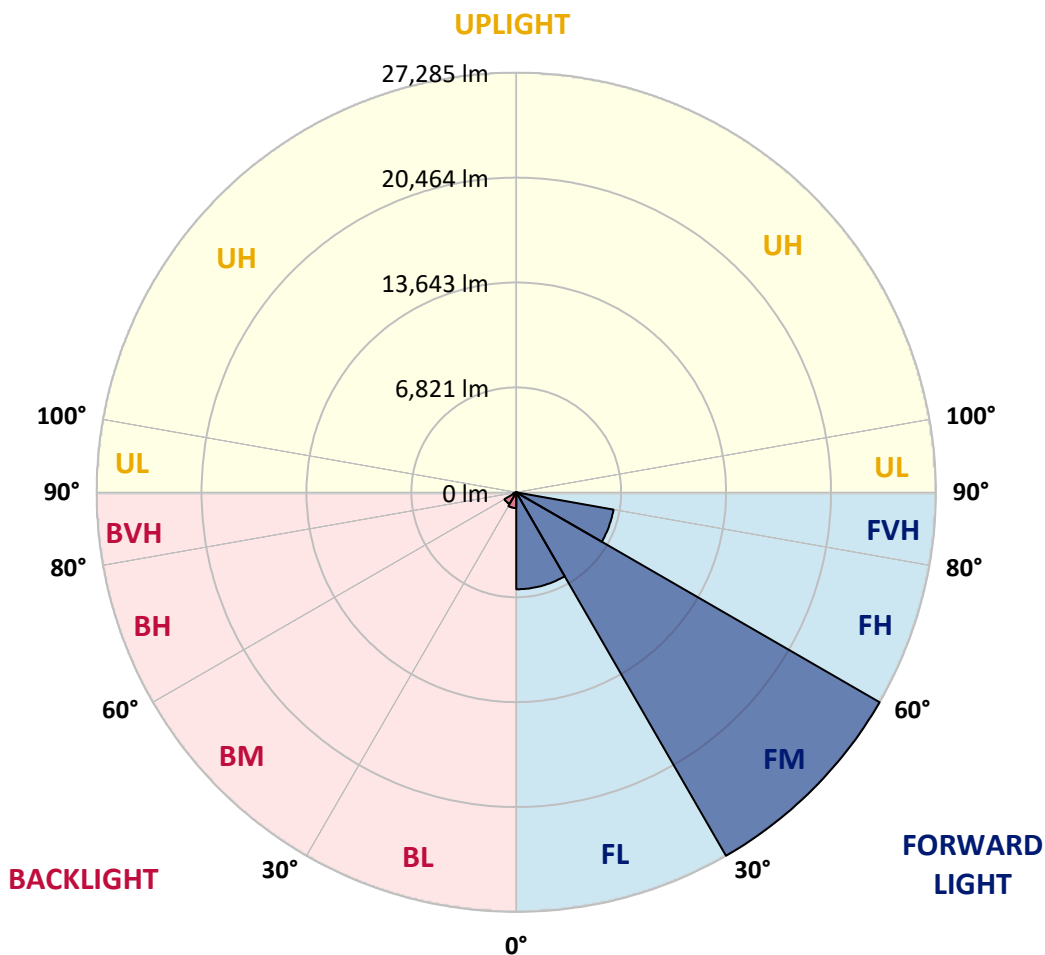
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6303.5	14.9			
FM (30°-60°)	27285.2	64.7			
FH (60°-80°)	6422.0	15.2			G3/7500
FVH (80°-90°)	54.4	0.1			G1/100
BL (0°-30°)	1023.6	2.4	B3/2500		
BM (30°-60°)	884.1	2.1	B1/1000		
BH (60°-80°)	193.9	0.5	B1/500		G1/500
BVH (80°-90°)	2.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	9444.2	9444.2	9444.2	9444.2	9444.2	9444.2	9444.2	9444.2	9444.2	9444.2	9444.2
2.5°	11851.6	11675.0	11680.5	11600.3	11307.1	11077.7	10839.1	10782.7	10411.2	10021.4	9646.3
5°	13900.4	13771.1	13740.1	13585.3	13177.4	12745.8	12283.2	12175.8	11449.2	10651.5	9866.7
7.5°	14953.0	14954.8	14929.3	14872.8	14617.9	14199.0	13634.5	13521.6	12532.7	11336.3	10096.1
10°	14647.0	14716.2	14858.3	15045.8	15240.7	15187.9	14763.6	14661.6	13587.1	12061.1	10351.1
12.5°	13933.1	13942.3	14100.7	14408.5	14969.3	15544.8	15552.1	15517.5	14594.2	12818.6	10631.5
15°	13578.0	13612.6	13670.9	13869.4	14401.2	15322.6	15981.9	16031.0	15517.5	13623.6	10930.2
17.5°	13811.1	13860.3	13811.1	13834.8	14142.6	14971.2	16056.5	16182.2	16324.2	14419.4	11212.4
20°	14443.1	14488.6	14401.2	14304.6	14364.7	14869.2	16003.7	16173.1	16956.2	15126.0	11449.2
22.5°	15295.3	15313.5	15180.6	15022.2	14978.5	15215.2	16047.4	16222.3	17462.4	15765.2	11598.5
25°	16233.2	16249.6	16083.9	15901.7	15797.9	15894.5	16406.2	16537.3	17908.6	16375.2	11684.1
27.5°	17254.8	17269.4	17061.8	16837.8	16717.6	16721.2	16998.0	17138.3	18383.9	17070.9	11753.3
30°	18334.7	18327.4	18136.2	17824.8	17671.8	17668.2	17850.3	17992.4	19072.3	17963.2	11848.0
32.5°	19547.6	19533.0	19261.7	18875.6	18702.6	18728.1	18890.1	18972.1	19926.3	18913.8	12017.4
35°	21144.7	21102.8	20693.0	20214.1	19895.4	19886.3	20022.9	20088.4	21015.4	20064.8	12299.6
37.5°	23217.1	23178.8	22623.4	21927.7	21479.7	21312.2	21474.3	21558.0	22568.7	21541.7	12753.1
40°	25260.3	25222.1	24892.5	24255.1	23564.9	23162.4	23289.9	23379.1	24508.2	23333.6	13324.9
42.5°	26669.8	26702.6	26817.3	26870.2	26223.7	25378.7	25437.0	25529.8	26546.0	25249.4	13978.7
45°	27041.3	27112.4	27760.7	29033.6	29275.8	28616.6	28006.5	28057.5	28616.6	27165.2	14632.4
47.5°	25925.0	26056.1	27307.2	29674.6	31725.2	32191.4	31036.8	30969.4	30603.4	28714.9	15096.8
50°	23388.2	23508.4	25129.2	28631.1	32468.2	35604.1	34668.1	34469.6	32346.2	29641.9	15260.7
52.5°	19716.9	19862.6	21179.3	25345.9	31067.8	37126.5	38106.3	37940.6	33624.6	29714.7	15288.0
55°	13924.0	14100.7	15493.8	19425.5	26629.8	35915.5	39324.6	39275.4	34686.3	29521.7	15346.3
57.5°	7825.2	7952.7	9455.1	12452.6	19503.9	31282.7	38051.6	38377.6	35327.3	29186.6	15433.7
60°	3474.6	3509.2	4286.8	6199.0	11418.2	23907.2	34407.6	34957.6	34777.3	28738.6	15581.2
62.5°	1926.7	1897.6	1897.6	2576.8	4962.5	14800.0	28057.5	28966.2	32429.9	28208.7	15588.5
65°	1509.7	1482.4	1404.1	1415.0	1890.3	6568.7	19429.2	21044.5	27971.9	26655.3	15064.0
67.5°	1280.2	1256.6	1178.2	1147.3	1174.6	2167.1	10675.2	12352.4	21224.8	22617.9	13048.1
70°	1081.7	1065.3	1025.3	987.0	917.8	1070.8	4084.7	5224.7	13079.1	15045.8	8906.9
72.5°	870.5	863.2	877.8	845.0	761.2	713.9	1396.8	1691.8	5874.8	6714.4	3669.5
75°	750.3	746.6	753.9	721.2	626.5	497.2	710.2	775.8	1657.2	1642.6	743.0
77.5°	488.1	493.5	624.6	610.1	539.0	331.4	367.9	397.0	502.6	377.0	225.8
80°	311.4	307.8	316.9	506.3	484.4	253.1	183.9	193.0	242.2	185.8	109.3
82.5°	189.4	185.8	207.6	236.7	244.0	176.6	112.9	114.7	151.2	120.2	58.3
85°	16.4	21.9	125.7	116.5	83.8	54.6	54.6	58.3	80.1	71.0	32.8
87.5°	0.0	0.0	21.9	32.8	18.2	20.0	20.0	21.9	31.0	31.0	16.4
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°	9444.2	9444.2	9444.2	9444.2	9444.2	9444.2	9444.2	9444.2	9444.2	9444.2	9444.2
2.5°	9451.4	9262.1	8879.6	8511.8	8200.4	7899.9	7557.5	7218.8	7060.4	6996.6	6931.1
5°	9467.8	9078.1	8289.6	7495.6	6672.5	5931.3	5299.4	4651.1	4326.9	4184.9	4119.3
7.5°	9489.7	8896.0	7621.3	6288.2	4962.5	3957.2	3079.5	2514.9	2270.9	2232.7	2138.0
10°	9493.3	8675.7	6845.5	4955.2	3327.1	2385.6	1835.7	1544.3	1436.8	1418.6	1387.7
12.5°	9500.6	8415.2	5984.1	3669.5	2218.1	1595.3	1327.6	1231.1	1201.9	1200.1	1200.1
15°	9522.5	8142.1	5089.9	2644.2	1593.5	1263.8	1165.5	1127.3	1116.3	1121.8	1120.0
17.5°	9522.5	7819.8	4212.2	1970.4	1287.5	1136.4	1081.7	1056.2	1052.6	1058.1	1059.9
20°	9453.3	7428.2	3407.3	1533.4	1141.8	1054.4	1005.2	981.6	972.5	976.1	977.9
22.5°	9287.5	6947.5	2751.7	1269.3	1045.3	979.7	926.9	890.5	875.9	877.8	877.8
25°	9029.0	6377.5	2152.5	1098.1	967.0	899.6	837.7	795.8	786.7	784.9	788.5
27.5°	8697.5	5747.4	1713.6	967.0	874.1	810.4	748.5	713.9	706.6	708.4	710.2
30°	8371.5	5093.6	1351.2	855.9	770.3	710.2	662.9	646.5	646.5	651.9	653.8
32.5°	8072.9	4465.3	1069.0	759.4	677.4	622.8	595.5	593.7	602.8	606.4	608.2
35°	7816.1	3884.4	885.0	684.7	604.6	557.3	548.1	555.4	566.4	573.6	575.5
37.5°	7634.0	3365.4	774.0	622.8	548.1	509.9	508.1	522.7	537.2	553.6	557.3
40°	7557.5	2926.5	697.5	568.2	502.6	473.5	468.0	488.1	515.4	539.0	542.7
42.5°	7493.8	2567.7	631.9	515.4	466.2	424.3	422.5	448.0	480.8	504.4	509.9
45°	7439.1	2280.0	571.8	458.9	418.9	364.2	369.7	402.5	428.0	453.5	458.9
47.5°	7326.2	2043.3	506.3	398.8	346.0	311.4	322.3	351.5	371.5	409.7	415.2
50°	7124.1	1850.2	438.9	326.0	282.3	269.5	285.9	305.9	331.4	364.2	367.9
52.5°	6987.5	1704.5	380.6	273.2	233.1	236.7	253.1	260.4	275.0	287.7	284.1
55°	6909.2	1624.4	333.3	236.7	198.5	209.4	213.1	204.0	196.7	183.9	178.5
57.5°	6900.1	1551.6	296.8	205.8	174.8	180.3	167.5	136.6	111.1	96.5	92.9
60°	6885.5	1462.3	267.7	173.0	154.8	147.5	120.2	74.7	52.8	49.2	49.2
62.5°	6727.1	1323.9	245.8	145.7	131.1	111.1	69.2	34.6	29.1	31.0	31.0
65°	6222.7	1130.9	224.0	118.4	103.8	80.1	34.6	20.0	10.9	12.7	12.7
67.5°	5290.3	901.4	200.3	91.1	78.3	51.0	20.0	9.1	0.0	0.0	0.0
70°	3542.0	559.1	169.4	63.7	51.0	31.0	14.6	1.8	0.0	0.0	0.0
72.5°	1358.5	302.3	136.6	38.2	32.8	21.9	9.1	0.0	0.0	0.0	0.0
75°	305.9	198.5	94.7	27.3	23.7	14.6	3.6	0.0	0.0	0.0	0.0
77.5°	116.5	143.9	54.6	18.2	16.4	9.1	0.0	0.0	0.0	0.0	0.0
80°	56.5	85.6	25.5	10.9	9.1	3.6	0.0	0.0	0.0	0.0	0.0
82.5°	29.1	32.8	10.9	5.5	3.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	16.4	16.4	5.5	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.1	5.5	1.8	1.8	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)