

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: P192865

Luminaire Tested: **GAN-AF-07-LED-U-SL3-7030-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192865
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24289)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-07-LED-U-SL3-7030-800-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28106.9 lumens
Efficiency: N/A
Efficacy: 95.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B2 - U0 - G4

Input Watts (W): 295
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

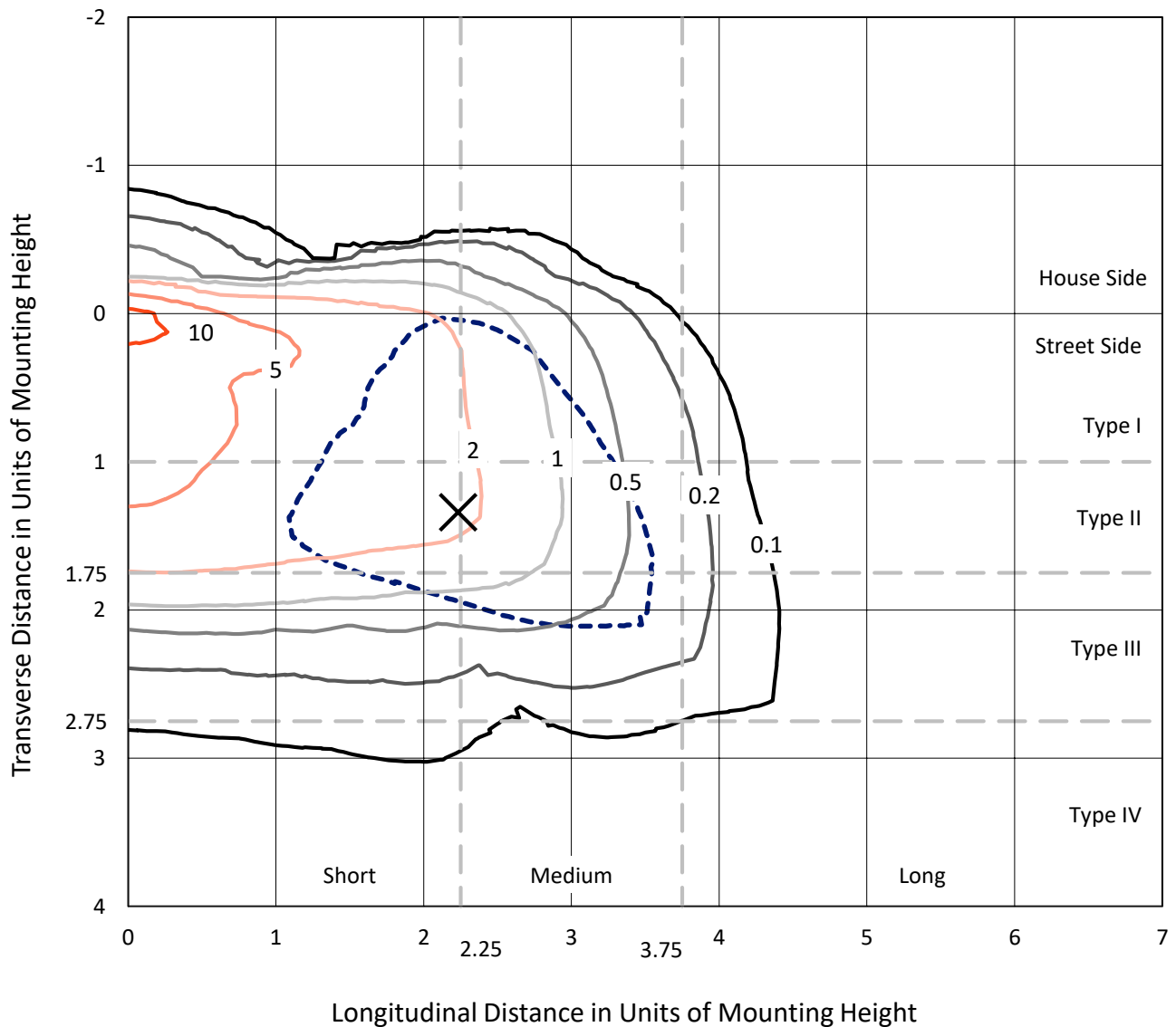


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

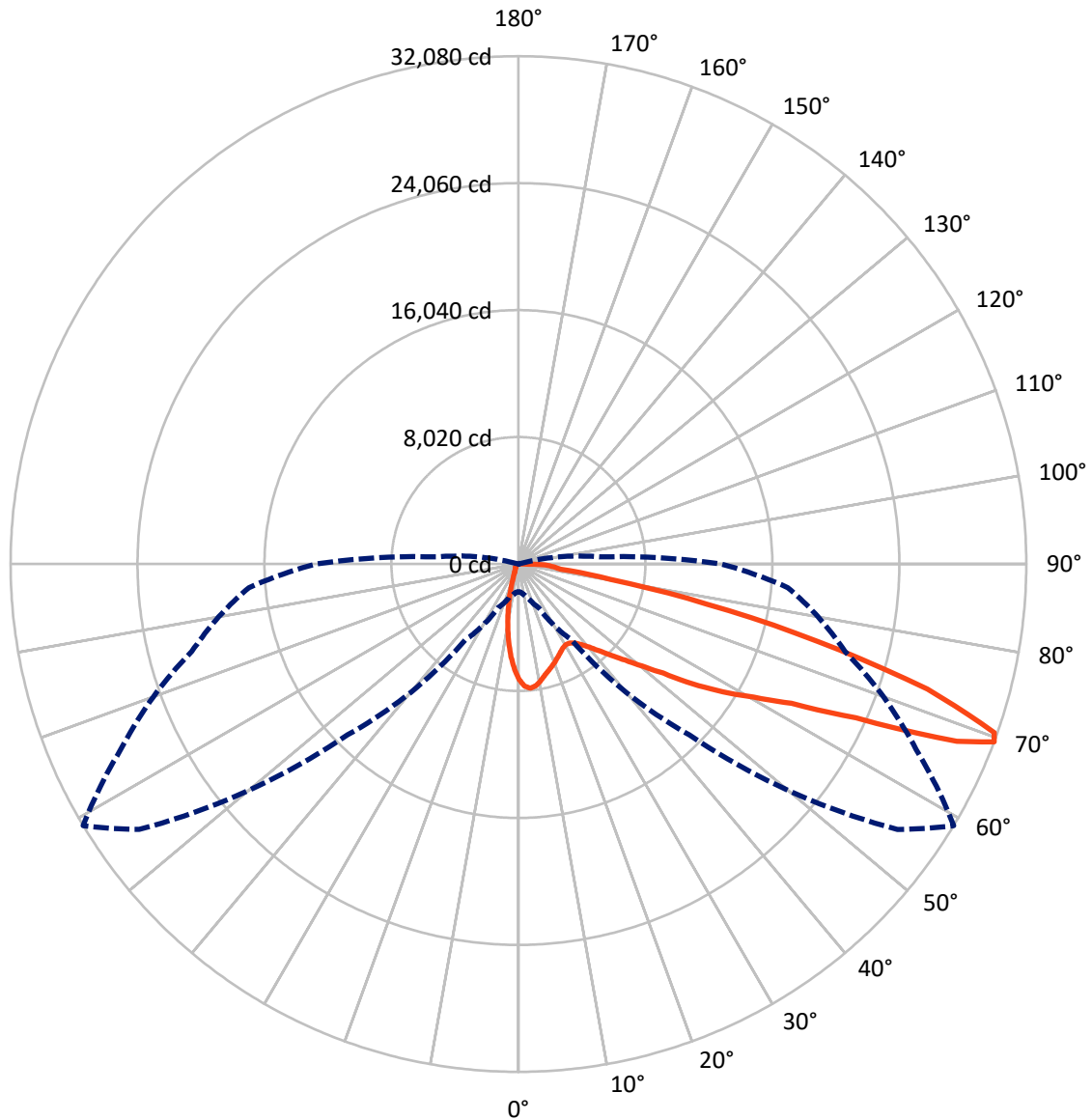


Based on 25 foot mounting height. Maximum calculated value = 11.8 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2288.9	0.0	2288.9
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	25818.0	0.0	25818.0
	% Fixture	91.9	0.0	91.9
Total	Lumens	28106.9	0.0	28106.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	593.8	2.1
10°-20°	1227.0	4.4
20°-30°	1651.1	5.9
30°-40°	2397.3	8.5
40°-50°	3991.7	14.2
50°-60°	6227.0	22.2
60°-70°	7705.4	27.4
70°-80°	3905.0	13.9
80°-90°	408.6	1.5
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°	28106.9	100.0
0°-180°	28106.9	100.0



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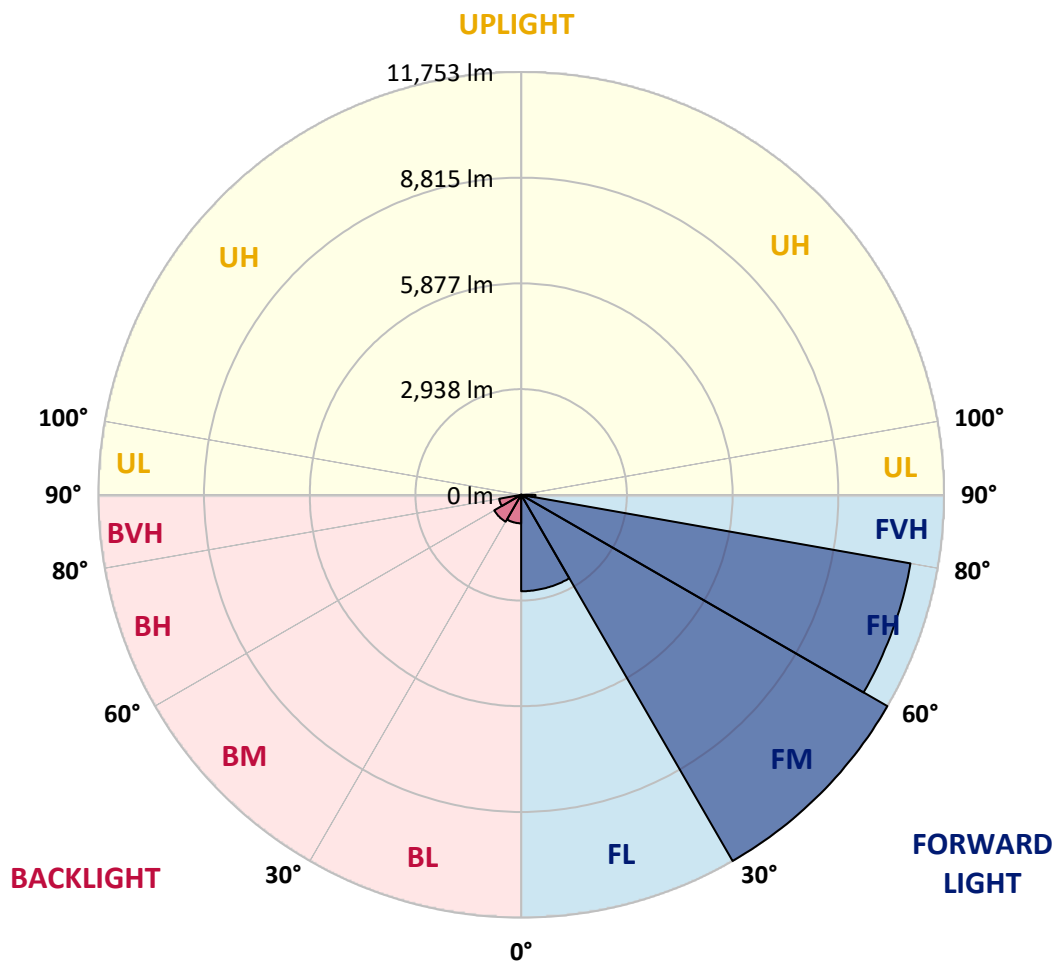
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2679.7	9.5			
FM	(30°-60°)	11753.5	41.8			
FH	(60°-80°)	10988.8	39.1			G4/12000
FVH	(80°-90°)	396.0	1.4			G3/500
BL	(0°-30°)	792.3	2.8	B2/1000		
BM	(30°-60°)	862.5	3.1	B1/1000		
BH	(60°-80°)	621.6	2.2	B2/1000		G2/1000
BVH	(80°-90°)	12.6	0.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	7315.9	7315.9	7315.9	7315.9	7315.9	7315.9	7315.9	7315.9	7315.9	7315.9	7315.9
2.5°	8018.3	8015.2	7980.2	7964.4	7935.7	7875.3	7781.6	7732.3	7652.8	7514.6	7328.6
5°	7945.3	7983.3	8004.0	8005.7	8026.3	8004.0	7919.7	7878.4	7768.8	7546.3	7212.5
7.5°	7449.4	7463.6	7522.5	7573.3	7671.8	7765.6	7795.8	7778.3	7713.1	7474.8	7031.4
10°	6918.6	6932.8	7002.8	7069.5	7203.0	7347.6	7500.2	7532.0	7559.0	7373.1	6856.6
12.5°	6460.7	6475.0	6546.6	6634.0	6789.8	6967.8	7204.5	7257.0	7376.2	7276.1	6716.6
15°	6066.6	6072.9	6142.9	6250.9	6436.9	6665.8	6934.3	7018.6	7201.4	7207.8	6594.3
17.5°	5731.3	5747.1	5790.0	5893.3	6096.7	6379.7	6692.7	6813.6	7028.2	7150.6	6475.0
20°	5526.3	5542.0	5540.5	5597.8	5780.5	6082.5	6451.2	6595.9	6856.6	7091.8	6368.6
22.5°	5486.5	5486.5	5445.2	5437.2	5545.4	5798.0	6200.1	6376.5	6702.4	7066.4	6293.9
25°	5628.0	5621.6	5518.2	5434.0	5438.8	5589.8	5957.0	6166.7	6572.1	7083.9	6254.1
27.5°	5926.8	5918.8	5788.4	5628.0	5499.2	5497.6	5772.6	5998.3	6468.7	7166.5	6270.1
30°	6340.0	6336.8	6195.3	5993.5	5759.8	5545.4	5709.1	5913.9	6401.9	7315.9	6306.6
32.5°	6791.3	6786.6	6680.1	6467.2	6171.5	5759.8	5775.8	5947.4	6421.0	7514.6	6395.6
35°	7269.8	7261.8	7215.7	7029.7	6703.9	6155.6	5995.0	6128.6	6541.8	7811.7	6570.5
37.5°	7787.9	7795.8	7829.2	7651.2	7309.5	6710.2	6362.2	6452.9	6785.0	8215.4	6854.9
40°	8552.4	8550.7	8561.9	8328.3	7999.3	7388.9	6875.5	6904.2	7191.9	8751.0	7287.3
42.5°	9939.9	9842.9	9548.9	9072.2	8741.5	8164.6	7522.5	7492.2	7689.3	9413.8	7892.8
45°	11804.3	11597.7	10834.7	9920.8	9498.0	9038.7	8318.8	8221.8	8347.3	10210.1	8639.7
47.5°	13407.9	13193.3	12114.1	10804.5	10300.6	9868.4	9251.7	9076.8	9118.2	11101.8	9587.1
50°	13953.1	13848.2	12905.6	11573.8	11077.9	10912.6	10334.1	10121.1	10062.2	12133.2	10685.3
52.5°	13763.9	13756.0	13128.1	12072.8	11789.9	11993.4	11696.1	11449.9	11233.6	13220.4	11802.6
55°	13460.3	13500.1	13218.7	12509.8	12500.4	12980.3	13558.8	13353.8	12727.6	14401.3	12765.8
57.5°	12622.7	12792.8	13167.9	13336.4	13727.4	14218.5	15110.1	15230.8	14490.3	15305.6	13565.2
60°	10241.9	10615.4	11842.4	13455.6	15308.8	16532.6	16982.3	17085.6	15936.5	16057.4	14644.4
62.5°	7269.8	7651.2	9207.2	11936.1	15332.6	19573.0	19771.7	19366.4	17529.1	17171.5	16505.6
65°	3858.9	4153.1	5424.5	8615.9	13293.5	20278.7	24649.4	23441.6	20339.1	19363.3	18910.3
67.5°	1974.0	2063.1	2568.4	4216.6	9138.9	18012.3	29021.8	29872.1	25181.8	21537.5	18794.2
69°	1746.7	1799.2	2134.5	3048.5	5852.0	15256.3	29234.8	32079.7	27717.0	21356.3	17079.3
70°	1691.2	1737.2	2042.4	2759.2	4574.2	12794.4	28419.4	31885.9	28365.5	20666.5	15798.4
72.5°	1435.2	1474.9	1818.2	2438.1	3717.5	6351.1	23085.5	27019.2	25453.7	17216.0	11435.5
75°	960.0	1090.3	1745.1	2285.4	3458.5	3607.8	15219.9	19525.4	18137.8	11611.8	5957.0
77.5°	230.4	247.9	492.6	1818.2	3162.8	3175.5	7827.7	12137.9	9900.2	4138.7	1408.2
80°	124.0	119.2	138.3	360.8	2945.1	2980.0	3523.6	5891.8	3534.7	686.5	464.2
82.5°	87.4	82.6	89.0	151.0	926.6	2714.6	2549.3	2666.9	1465.3	263.9	208.2
85°	31.8	30.1	49.2	136.7	290.8	1560.8	2619.3	2199.7	1187.2	120.8	152.5
87.5°	11.2	9.5	19.1	74.8	89.0	664.4	1616.4	1662.5	467.3	73.1	71.6
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°	7315.9	7315.9	7315.9	7315.9	7315.9	7315.9	7315.9	7315.9	7315.9	7315.9	7315.9
2.5°	7250.7	7152.1	6971.0	6785.0	6613.4	6406.8	6303.3	6201.7	6158.8	6142.9	6068.2
5°	7040.8	6874.0	6489.4	6103.1	5747.1	5368.9	5119.4	4919.1	4801.5	4744.2	4653.7
7.5°	6772.3	6499.0	5915.7	5319.7	4764.9	4218.2	3812.9	3501.3	3286.8	3183.5	3089.8
10°	6511.7	6147.7	5317.9	4505.9	3752.5	3027.8	2468.2	2063.1	1804.0	1684.8	1608.4
12.5°	6278.0	5805.9	4741.1	3712.7	2767.1	1918.4	1349.4	1026.7	866.2	810.6	783.6
15°	6069.8	5491.3	4195.9	2959.4	1873.9	1096.6	737.5	627.8	602.3	602.3	599.2
17.5°	5872.6	5182.9	3669.8	2252.2	1176.1	670.8	561.0	546.8	546.8	553.1	553.1
20°	5683.5	4889.0	3161.2	1616.4	740.7	532.4	507.0	503.8	507.0	514.9	514.9
22.5°	5521.4	4621.8	2686.0	1109.4	549.9	479.9	467.3	462.5	464.2	468.8	472.0
25°	5400.6	4396.1	2237.8	751.8	473.6	437.0	422.8	414.8	408.5	408.5	411.7
27.5°	5324.4	4205.5	1804.0	546.8	426.0	397.3	375.1	362.4	348.1	340.2	343.3
30°	5268.7	4024.2	1397.1	446.7	381.5	352.8	324.3	303.5	282.9	273.3	276.5
32.5°	5248.0	3878.0	1044.2	394.2	341.8	310.0	275.0	247.9	225.7	217.8	219.3
35°	5303.7	3762.1	764.5	355.9	310.0	270.2	230.4	200.3	182.8	178.0	179.6
37.5°	5450.0	3700.1	572.2	324.3	281.4	236.8	192.3	163.7	152.5	152.5	154.2
40°	5726.5	3698.4	459.3	302.0	255.8	205.1	159.0	138.3	131.8	135.1	136.7
42.5°	6130.2	3782.7	400.6	281.4	233.6	174.9	131.8	117.6	116.1	119.2	120.8
45°	6681.6	3936.8	368.8	263.9	209.8	146.2	111.2	101.7	101.7	106.5	108.0
47.5°	7357.2	4162.6	341.8	246.4	186.0	122.4	95.4	89.0	90.5	95.4	96.9
50°	8171.0	4447.1	314.6	227.3	168.5	101.7	82.6	77.9	79.4	85.9	87.4
52.5°	9097.6	4830.2	292.5	209.8	146.2	84.2	69.9	66.7	69.9	76.3	77.9
55°	9892.3	5173.4	265.4	195.5	117.6	69.9	57.3	57.3	60.4	68.4	69.9
57.5°	10656.7	5532.6	241.6	168.5	92.3	55.6	47.6	49.2	54.1	62.0	63.6
60°	11778.8	6141.4	212.9	141.5	69.9	44.5	39.8	41.3	47.6	55.6	57.3
62.5°	13684.4	7067.9	184.3	117.6	54.1	35.0	31.8	35.0	42.9	52.5	54.1
65°	15404.1	7444.6	151.0	98.6	41.3	27.0	27.0	31.8	41.3	50.8	52.5
67.5°	14445.7	6266.9	117.6	77.9	31.8	20.6	22.3	30.1	39.8	50.8	52.5
69°	12775.3	5124.2	100.1	62.0	27.0	19.1	20.6	30.1	39.8	49.2	50.8
70°	11473.7	4326.2	89.0	52.5	23.8	19.1	20.6	28.6	39.8	49.2	50.8
72.5°	7684.5	2336.4	71.6	38.1	22.3	17.5	17.5	28.6	38.1	47.6	49.2
75°	3302.7	645.2	57.3	27.0	19.1	15.9	15.9	27.0	36.6	46.1	49.2
77.5°	603.9	163.7	46.1	23.8	19.1	15.9	14.3	25.4	35.0	44.5	46.1
80°	240.1	81.1	36.6	20.6	17.5	14.3	12.7	23.8	33.4	42.9	44.5
82.5°	144.7	46.1	30.1	19.1	17.5	12.7	11.2	20.6	31.8	41.3	42.9
85°	117.6	31.8	23.8	19.1	15.9	12.7	9.5	19.1	28.6	39.8	41.3
87.5°	57.3	22.3	22.3	17.5	15.9	12.7	9.5	17.5	27.0	38.1	39.8
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)