

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: P192956

Luminaire Tested: **GAN-AF-08-LED-U-SL4-7030-HSS-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192956
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24301)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-08-LED-U-SL4-7030-HSS-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37446.4 lumens
Efficiency: N/A
Efficacy: 84.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G5

Input Watts (W): 445
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

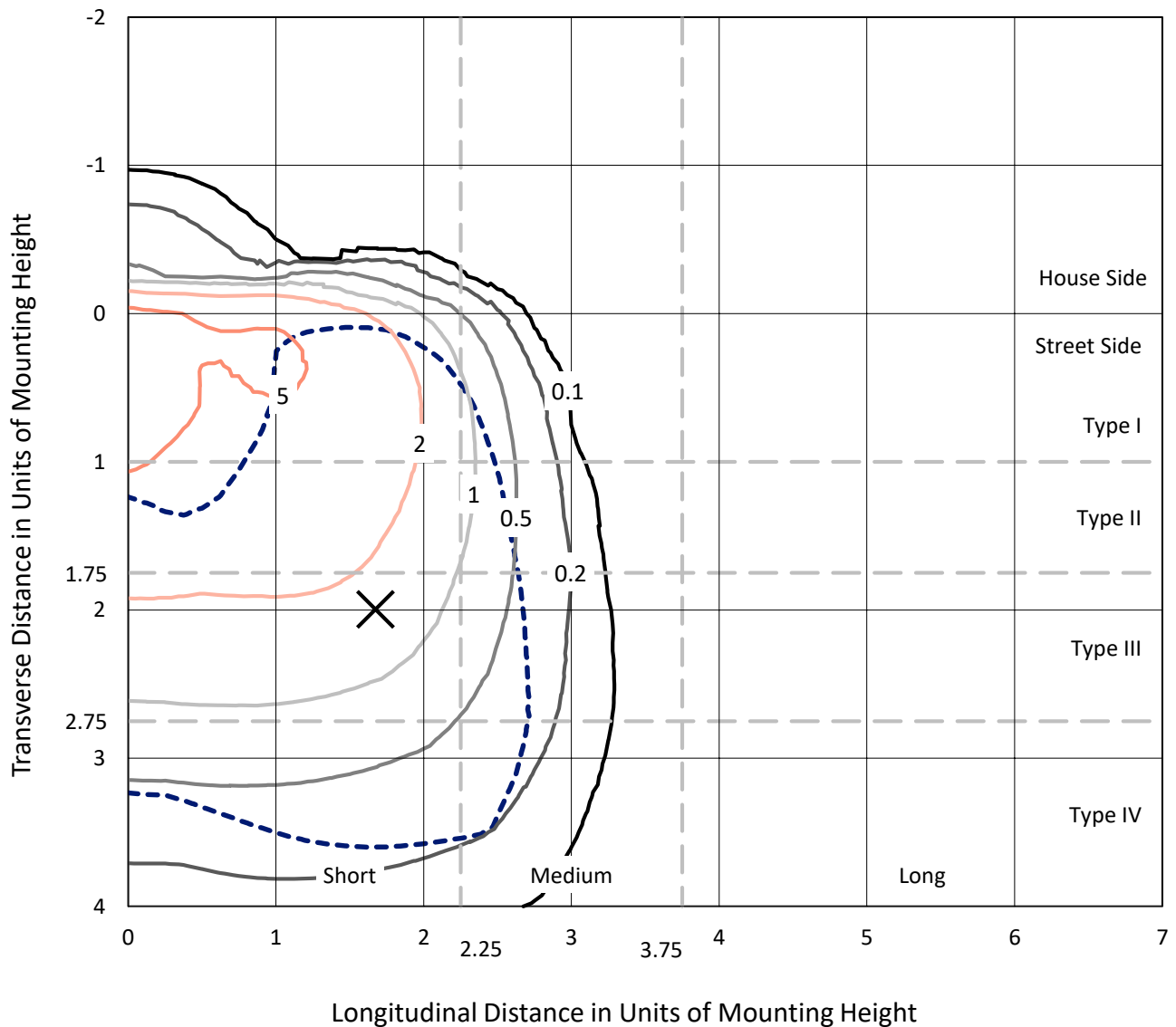


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

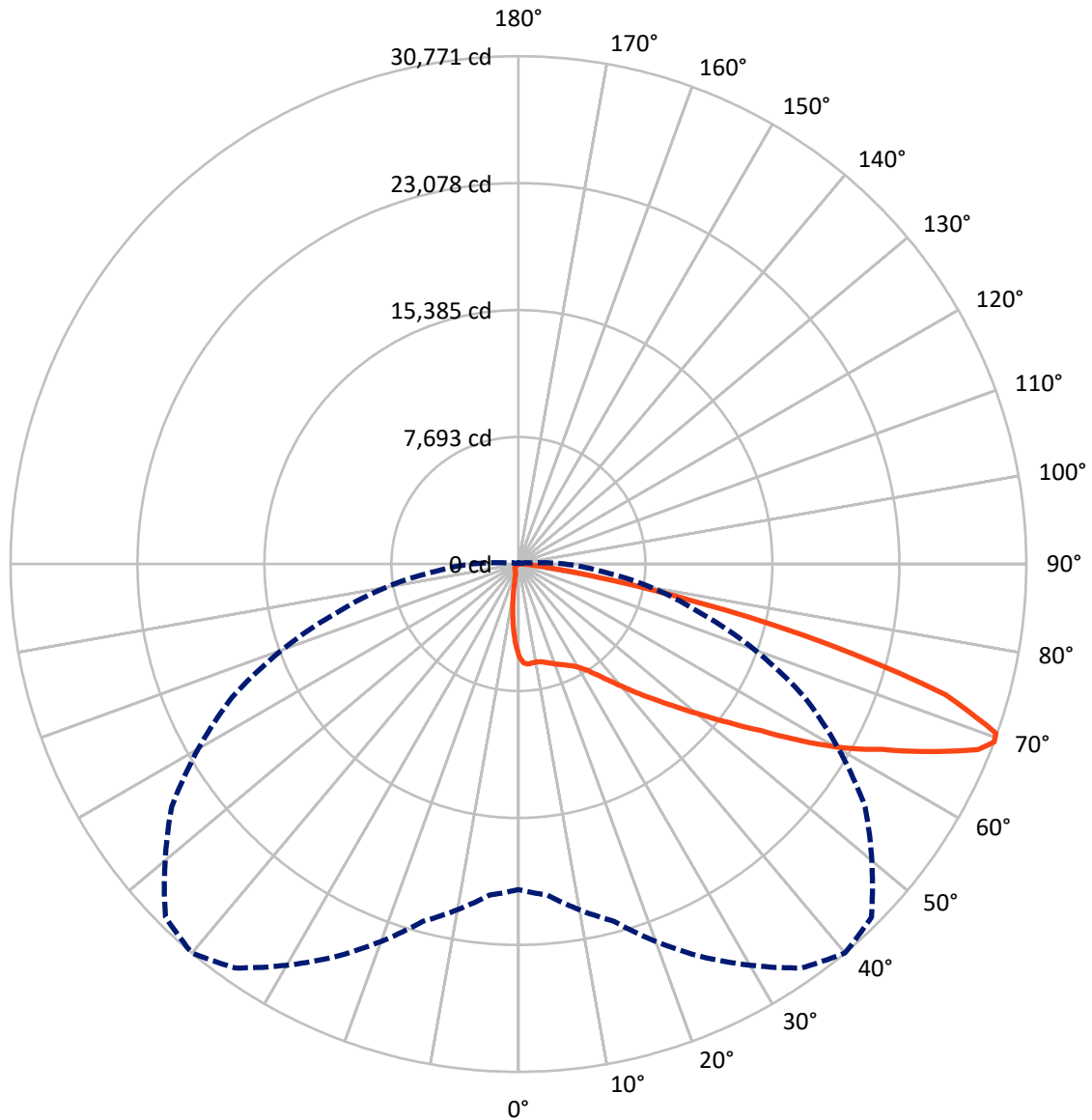


Based on 30 foot mounting height. Maximum calculated value = 6.8 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2190.8	0.0	2190.8
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	35255.6	0.0	35255.6
	% Fixture	94.1	0.0	94.1
Total	Lumens	37446.4	0.0	37446.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	453.6	1.2
10°-20°	1115.5	3.0
20°-30°	1878.9	5.0
30°-40°	3075.9	8.2
40°-50°	5325.8	14.2
50°-60°	8388.7	22.4
60°-70°	10955.2	29.3
70°-80°	5642.4	15.1
80°-90°	610.3	1.6
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°	37446.4	100.0
0°-180°	37446.4	100.0



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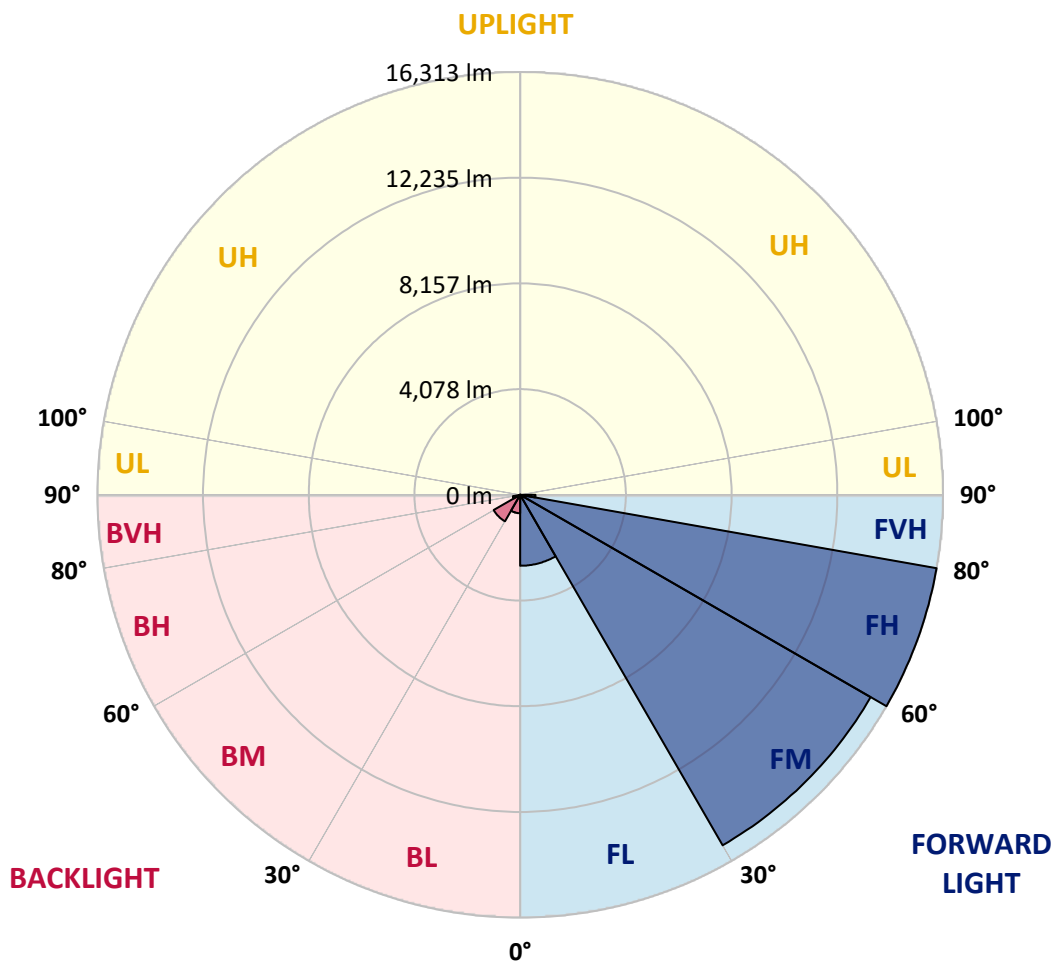
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2738.4	7.3			
FM	(30°-60°)	15612.8	41.7			
FH	(60°-80°)	16313.2	43.6			G5
FVH	(80°-90°)	591.2	1.6			G4/750
BL	(0°-30°)	709.7	1.9	B2/1000		
BM	(30°-60°)	1177.5	3.1	B2/2500		
BH	(60°-80°)	284.5	0.8	B1/500		G1/500
BVH	(80°-90°)	19.2	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	5594.7	5594.7	5594.7	5594.7	5594.7	5594.7	5594.7	5594.7	5594.7	5594.7	5594.7
2.5°	6143.0	6109.6	6089.6	6062.8	6029.4	6000.4	5989.3	5906.8	5828.8	5721.7	5599.1
5°	6256.7	6245.6	6209.9	6174.2	6134.2	6089.6	6065.0	5966.9	5855.4	5699.4	5485.5
7.5°	6267.8	6254.4	6209.9	6160.8	6105.1	6051.7	6009.3	5911.3	5808.7	5650.5	5389.6
10°	6249.9	6234.5	6201.0	6147.5	6078.4	6027.1	5984.7	5891.2	5804.2	5661.6	5371.8
12.5°	6230.0	6214.3	6198.8	6171.9	6111.9	6076.1	6040.5	5951.4	5873.3	5752.9	5436.4
15°	6249.9	6241.1	6258.9	6247.8	6214.3	6183.1	6147.5	6067.2	5995.9	5895.6	5554.5
17.5°	6334.8	6334.8	6390.5	6397.1	6365.9	6321.3	6270.1	6189.9	6129.7	6045.0	5695.0
20°	6533.0	6526.4	6597.7	6611.1	6535.4	6466.2	6390.5	6292.3	6245.6	6192.0	5833.2
22.5°	6874.1	6842.9	6885.3	6871.9	6722.5	6615.5	6521.9	6401.6	6377.0	6352.6	5987.0
25°	7317.6	7299.8	7328.8	7197.4	6934.2	6789.4	6677.9	6542.0	6542.0	6566.5	6160.8
27.5°	7961.8	7895.0	7796.8	7565.1	7170.5	6985.6	6865.2	6720.3	6758.2	6849.6	6390.5
30°	8621.6	8548.0	8323.0	7966.3	7458.1	7264.2	7123.7	6972.2	7061.3	7228.5	6698.0
32.5°	9272.5	9190.1	8871.3	8421.0	7870.5	7676.5	7540.5	7373.4	7522.7	7803.7	7148.3
35°	9903.3	9829.7	9462.0	8931.4	8418.8	8258.3	8133.5	7988.6	8180.2	8572.6	7783.5
37.5°	10612.1	10531.8	10083.9	9508.8	9085.2	8969.3	8878.0	8733.1	9067.4	9642.4	8668.4
40°	11483.5	11347.6	10743.6	10170.7	9856.5	9800.8	9738.3	9718.3	10237.6	11033.3	9847.5
42.5°	12482.3	12259.3	11434.5	10868.4	10703.5	10743.6	10727.9	10817.1	11702.0	12763.0	11282.9
45°	13480.7	13193.2	12203.6	11612.8	11635.1	11775.6	11862.5	12219.1	13536.4	14746.8	12827.7
47.5°	14327.7	14044.6	12941.3	12417.6	12685.0	12961.4	13197.7	13873.0	15422.2	16699.4	14029.1
50°	15052.2	14784.6	13723.7	13302.5	13904.3	14350.0	14733.4	15734.2	17450.6	18186.1	14871.6
52.5°	15645.1	15466.7	14535.1	14316.6	15297.4	15950.4	16512.2	17711.4	19247.1	19394.2	15527.0
55°	16222.4	16095.3	15406.5	15522.5	16933.4	17822.8	18533.7	19808.8	20794.0	20401.7	16155.5
57.5°	16886.6	16770.6	16400.7	17051.5	19084.4	20203.2	20979.0	21667.8	22155.8	21431.4	16748.4
60°	17564.2	17497.4	17506.3	18750.0	21554.0	22628.3	23056.3	23234.6	23493.3	22401.1	16781.7
62.5°	18210.6	18337.6	18770.0	20640.1	23918.9	24743.7	24959.8	25135.9	24832.9	22554.8	15504.7
65°	19305.0	19512.3	20544.3	23170.1	26520.2	27402.9	27625.7	27021.7	25044.6	20566.6	12611.5
67.5°	19840.0	20218.9	22060.0	25528.3	29043.3	30024.1	29941.6	27144.3	22474.6	15683.0	8093.4
69°	19728.5	20132.0	22409.9	26250.4	29881.5	30770.8	30247.0	25644.1	19146.8	11361.0	4968.3
70°	19287.2	19695.1	22229.5	26223.8	29988.4	30692.8	29680.9	23792.0	16189.0	8307.3	3107.3
72.5°	16106.5	16458.6	19735.2	23702.7	27625.7	27052.9	24830.6	16483.2	7888.3	2262.4	700.0
75°	9914.4	10110.6	14160.5	17856.2	20865.2	19394.2	16543.4	8200.4	2351.6	639.7	387.9
77.5°	5238.1	5327.3	7752.3	10525.2	13226.6	10944.2	8478.9	3198.6	1083.3	401.2	280.8
80°	3096.0	3162.9	4174.8	4812.4	5724.0	4781.0	3390.2	1963.7	775.6	251.9	249.6
82.5°	1772.0	1814.4	3026.9	2674.7	2255.6	1925.8	1687.3	1861.2	465.9	169.4	258.5
85°	650.8	659.8	1703.0	2035.1	1341.8	797.9	838.1	1542.4	124.8	107.0	202.7
87.5°	303.0	296.4	875.9	1246.0	784.6	506.0	653.1	338.8	49.0	69.1	55.7
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°	5594.7	5594.7	5594.7	5594.7	5594.7	5594.7	5594.7	5594.7	5594.7	5594.7	5594.7
2.5°	5527.9	5445.4	5296.1	5142.2	4986.1	4865.9	4747.7	4654.1	4622.9	4565.0	4569.3
5°	5358.4	5206.9	4894.9	4578.3	4248.4	3976.5	3720.2	3512.8	3412.5	3310.0	3310.0
7.5°	5211.3	4990.6	4502.5	3987.6	3454.9	3006.9	2603.4	2300.2	2133.1	1999.3	1997.2
10°	5155.6	4856.9	4174.8	3437.1	2694.8	2084.1	1604.8	1297.2	1139.0	1036.5	1032.0
12.5°	5180.1	4810.1	3923.0	2928.8	1997.2	1339.6	929.5	731.1	664.2	633.0	633.0
15°	5251.4	4796.7	3671.1	2431.8	1411.0	838.1	617.5	563.9	559.5	559.5	559.5
17.5°	5338.4	4801.2	3412.5	1948.1	960.7	599.7	532.7	526.1	530.5	530.5	530.5
20°	5427.6	4803.4	3133.9	1500.1	677.6	521.6	501.5	499.4	503.8	503.8	506.0
22.5°	5536.7	4814.5	2855.3	1121.2	559.5	492.6	477.0	477.0	479.2	479.2	477.0
25°	5661.6	4836.8	2565.5	831.4	510.5	472.5	459.2	456.9	459.2	456.9	454.7
27.5°	5817.6	4868.0	2242.3	650.8	488.2	452.5	441.3	441.3	439.1	436.9	434.7
30°	6013.7	4903.7	1879.0	552.8	465.9	434.7	423.5	421.3	419.0	414.6	414.6
32.5°	6312.5	4981.6	1520.2	501.5	441.3	410.2	401.2	401.2	396.7	392.3	390.0
35°	6771.6	5135.5	1199.2	470.4	414.6	383.4	372.2	372.2	367.7	365.6	363.3
37.5°	7406.8	5369.5	931.7	441.3	387.9	354.4	343.3	341.0	336.5	332.1	329.9
40°	8251.6	5659.3	733.3	414.6	361.1	325.4	316.6	312.1	303.0	296.4	296.4
42.5°	9312.6	5989.3	595.1	385.5	329.9	298.8	291.9	285.2	269.7	263.0	260.8
45°	10422.6	6285.6	503.8	352.2	298.8	271.9	267.4	256.3	236.2	229.6	229.6
47.5°	11222.8	6354.7	443.6	321.0	269.7	243.0	240.7	220.7	202.7	198.5	196.1
50°	11722.1	6218.8	394.5	289.7	243.0	216.3	209.6	184.9	173.8	169.4	167.1
52.5°	12058.7	5975.8	354.4	263.0	218.4	191.6	176.1	158.2	149.3	144.9	144.9
55°	12328.4	5632.6	314.2	238.5	198.5	171.6	149.3	135.9	127.1	122.6	122.6
57.5°	12404.2	5166.8	274.1	218.4	178.3	151.6	127.1	118.1	107.0	104.8	104.8
60°	11853.6	4326.4	243.0	193.9	160.5	131.5	111.5	100.3	89.1	87.0	84.6
62.5°	10402.6	3347.9	213.9	171.6	140.4	113.6	95.8	82.5	73.5	73.5	73.5
65°	7935.1	2244.5	187.3	149.3	122.6	95.8	82.5	66.8	62.4	62.4	64.7
67.5°	4749.9	1221.5	160.5	127.1	104.8	80.2	69.1	57.9	55.7	57.9	57.9
69°	2783.9	717.8	144.9	113.6	91.3	71.3	60.2	51.3	55.7	57.9	57.9
70°	1718.5	483.7	133.8	102.4	82.5	64.7	55.7	49.0	53.5	55.7	55.7
72.5°	479.2	249.6	107.0	80.2	66.8	53.5	44.6	44.6	51.3	53.5	53.5
75°	312.1	184.9	82.5	60.2	51.3	42.4	37.9	42.4	49.0	51.3	51.3
77.5°	258.5	151.6	66.8	49.0	42.4	40.1	35.6	37.9	44.6	46.8	46.8
80°	236.2	107.0	53.5	44.6	37.9	35.6	33.5	31.2	40.1	42.4	42.4
82.5°	225.1	84.6	46.8	40.1	35.6	31.2	29.0	31.2	35.6	37.9	40.1
85°	140.4	55.7	42.4	37.9	31.2	29.0	29.0	29.0	33.5	35.6	35.6
87.5°	51.3	44.6	37.9	31.2	26.8	26.8	26.8	26.8	29.0	33.5	33.5
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)