

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: P192883

Luminaire Tested: **GAN-AF-05-LED-U-SL3-7030-1200-HSS-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192883
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-05-LED-U-SL3-7030-1200-HSS-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 1200mA 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: 26965.2 lumens
Efficiency: N/A
Efficacy: 84.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B2 - U0 - G4

Input Watts (W): 320
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

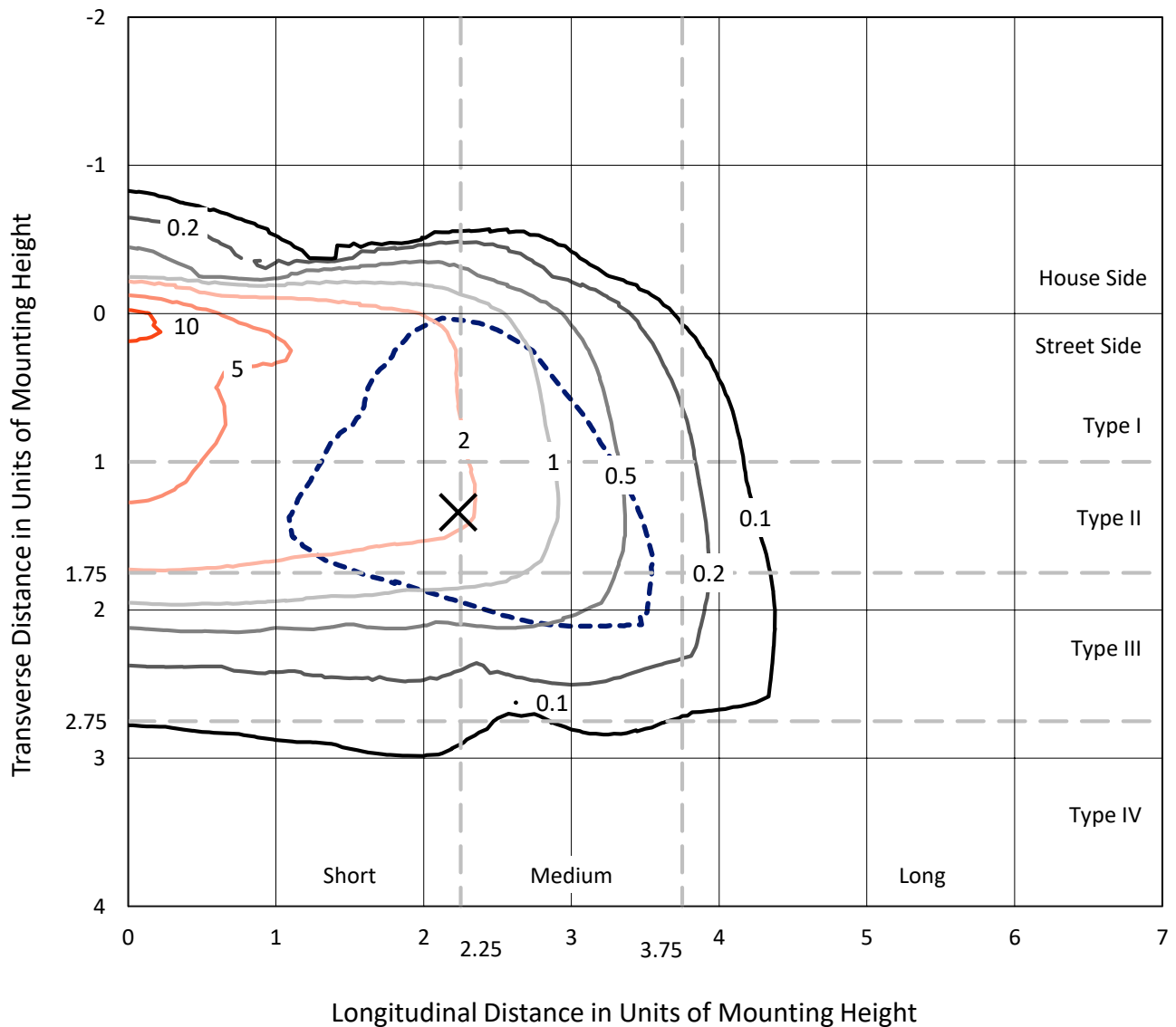


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

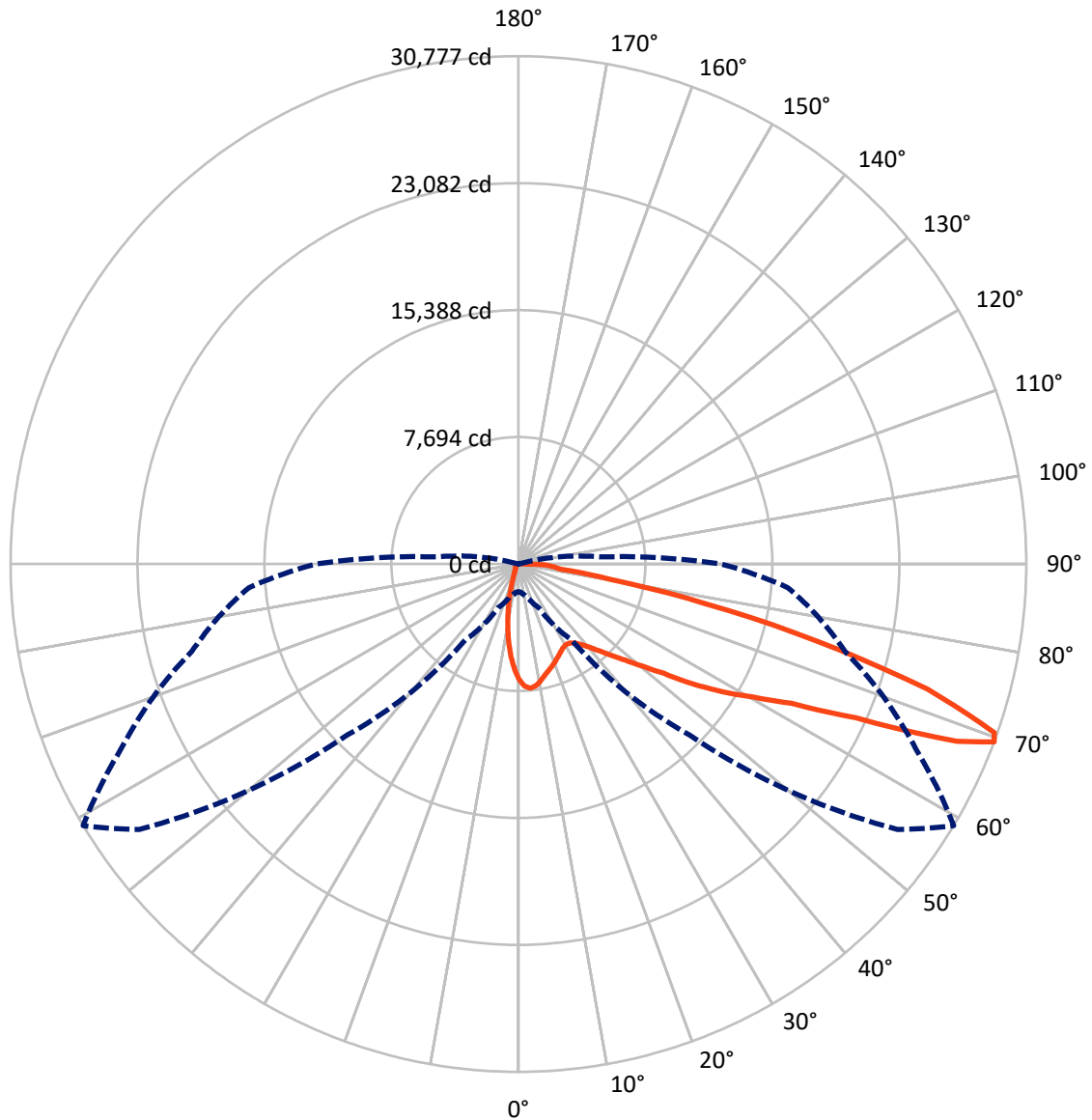


Based on 25 foot mounting height. Maximum calculated value = 11.3 fc
 Type III - Short - Non-Cutoff

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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	2195.9	0.0	2195.9
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	24769.2	0.0	24769.2
	% Fixture	91.9	0.0	91.9
Total	Lumens	26965.2	0.0	26965.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	569.7	2.1
10°-20°	1177.2	4.4
20°-30°	1584.0	5.9
30°-40°	2299.9	8.5
40°-50°	3829.6	14.2
50°-60°	5974.0	22.2
60°-70°	7392.4	27.4
70°-80°	3746.4	13.9
80°-90°	392.0	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°	26965.2	100.0
0°-180°	26965.2	100.0



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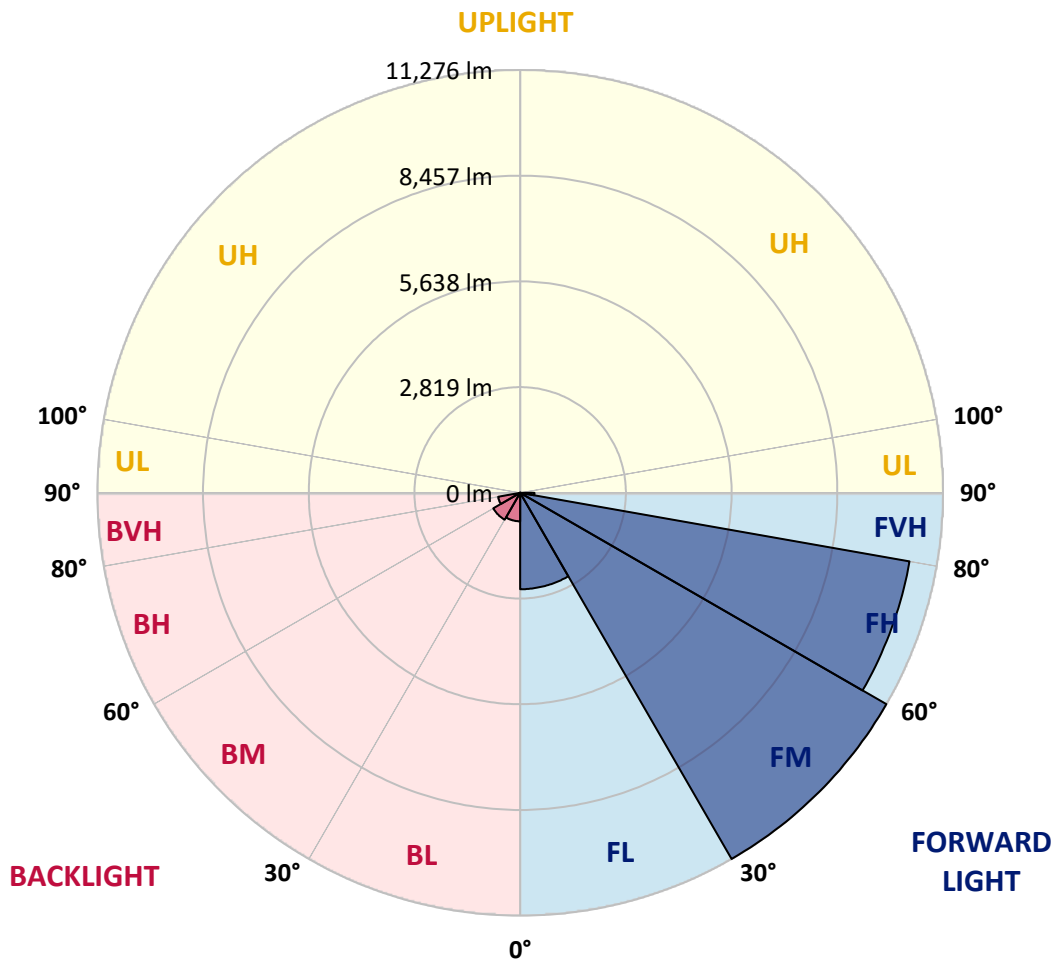
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2570.8	9.5			
FM	(30°-60°)	11276.1	41.8			
FH	(60°-80°)	10542.4	39.1			G4/12000
FVH	(80°-90°)	380.0	1.4			G3/500
BL	(0°-30°)	760.1	2.8	B2/1000		
BM	(30°-60°)	827.4	3.1	B1/1000		
BH	(60°-80°)	596.4	2.2	B2/1000		G2/1000
BVH	(80°-90°)	12.1	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°	7018.7	7018.7	7018.7	7018.7	7018.7	7018.7	7018.7	7018.7	7018.7	7018.7	7018.7
2.5°	7692.6	7689.5	7656.1	7640.8	7613.3	7555.4	7465.4	7418.1	7341.9	7209.3	7030.9
5°	7622.5	7659.1	7678.8	7680.4	7700.3	7678.8	7598.1	7558.4	7453.2	7239.7	6919.5
7.5°	7146.7	7160.6	7216.9	7265.6	7360.2	7450.2	7479.2	7462.4	7399.9	7171.1	6745.7
10°	6637.5	6651.1	6718.3	6782.3	6910.4	7049.2	7195.6	7226.1	7252.0	7073.6	6578.0
12.5°	6198.3	6212.1	6280.7	6364.6	6513.9	6684.7	6912.0	6962.2	7076.6	6980.6	6443.8
15°	5820.1	5826.2	5893.3	5997.0	6175.5	6395.1	6652.7	6733.5	6908.9	6915.0	6326.4
17.5°	5498.5	5513.7	5554.8	5653.9	5849.2	6120.6	6420.9	6536.9	6742.7	6860.1	6212.1
20°	5301.7	5317.0	5315.5	5370.3	5545.7	5835.4	6189.2	6328.0	6578.0	6803.7	6109.9
22.5°	5263.6	5263.6	5224.0	5216.4	5320.1	5562.5	5948.3	6117.5	6430.1	6779.3	6038.2
25°	5399.4	5393.2	5294.1	5213.3	5217.9	5362.8	5715.0	5916.3	6305.1	6796.0	6000.1
27.5°	5686.0	5678.3	5553.3	5399.4	5275.8	5274.3	5538.2	5754.5	6205.9	6875.3	6015.4
30°	6082.5	6079.4	5943.7	5750.0	5525.9	5320.1	5477.0	5673.9	6141.9	7018.7	6050.4
32.5°	6515.4	6510.9	6408.7	6204.4	5920.8	5525.9	5541.1	5705.8	6160.2	7209.3	6135.8
35°	6974.4	6966.8	6922.5	6744.2	6431.6	5905.6	5751.5	5879.7	6276.1	7494.4	6303.5
37.5°	7471.5	7479.2	7511.1	7340.4	7012.6	6437.7	6103.8	6190.7	6509.3	7881.8	6576.5
40°	8205.0	8203.4	8214.1	7989.9	7674.4	7088.8	6596.3	6623.8	6899.7	8395.6	6991.2
42.5°	9536.1	9443.1	9161.1	8703.6	8386.4	7832.9	7216.9	7187.9	7376.9	9031.4	7572.2
45°	11324.7	11126.5	10394.6	9517.8	9112.2	8671.6	7980.9	7887.8	8008.2	9795.3	8288.9
47.5°	12863.2	12657.3	11622.0	10365.7	9882.3	9467.6	8875.9	8708.2	8747.9	10650.7	9197.6
50°	13386.2	13285.6	12381.4	11103.6	10627.8	10469.3	9914.3	9710.0	9653.5	11640.4	10251.2
52.5°	13204.7	13197.2	12594.9	11582.3	11310.9	11506.2	11221.0	10984.7	10777.4	12683.3	11323.2
55°	12913.6	12951.7	12681.8	12001.7	11992.7	12453.1	13008.1	12811.4	12210.6	13816.3	12247.2
57.5°	12110.0	12273.1	12633.0	12794.6	13169.7	13640.9	14496.3	14612.3	13901.6	14683.9	13014.2
60°	9825.8	10184.2	11361.4	12909.0	14686.8	15860.9	16292.5	16391.6	15289.2	15405.1	14049.5
62.5°	6974.4	7340.4	8833.2	11451.3	14709.8	18778.0	18968.5	18579.7	16817.0	16474.0	15835.1
65°	3702.2	3984.3	5204.1	8265.9	12753.4	19454.9	23648.2	22489.3	19512.9	18576.7	18142.1
67.5°	1893.8	1979.2	2464.2	4045.4	8767.6	17280.6	27842.9	28658.7	24159.0	20662.6	18030.8
69°	1675.7	1726.1	2047.8	2924.6	5614.3	14636.6	28047.2	30776.5	26591.1	20488.8	16385.5
70°	1622.4	1666.6	1959.3	2647.1	4388.4	12274.6	27265.0	30590.6	27213.1	19827.0	15156.6
72.5°	1376.8	1415.0	1744.4	2339.0	3566.6	6093.1	22147.7	25921.6	24419.7	16516.6	10970.9
75°	920.9	1046.0	1674.2	2192.7	3317.9	3461.4	14601.5	18732.2	17401.0	11140.2	5715.0
77.5°	221.1	237.8	472.6	1744.4	3034.3	3046.5	7509.6	11645.0	9498.0	3970.6	1351.0
80°	119.0	114.4	132.6	346.2	2825.5	2859.0	3380.5	5652.4	3391.2	658.8	445.2
82.5°	83.9	79.3	85.4	144.9	889.0	2604.4	2445.8	2558.7	1405.8	253.2	199.7
85°	30.5	29.0	47.3	131.1	279.0	1497.4	2512.9	2110.4	1139.0	116.0	146.4
87.5°	10.7	9.2	18.2	71.7	85.4	637.4	1550.7	1594.9	448.3	70.2	68.7
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°	7018.7	7018.7	7018.7	7018.7	7018.7	7018.7	7018.7	7018.7	7018.7	7018.7	7018.7
2.5°	6956.1	6861.6	6687.8	6509.3	6344.6	6146.5	6047.4	5949.8	5908.6	5893.3	5821.7
5°	6754.9	6594.8	6225.8	5855.2	5513.7	5150.8	4911.4	4719.2	4606.5	4551.5	4464.7
7.5°	6497.2	6234.9	5675.4	5103.5	4571.4	4046.9	3658.0	3359.1	3153.3	3054.3	2964.2
10°	6247.1	5898.0	5102.0	4322.9	3600.1	2904.7	2367.9	1979.2	1730.6	1616.3	1543.1
12.5°	6022.9	5570.1	4548.5	3562.0	2654.7	1840.5	1294.5	985.0	831.0	777.6	751.7
15°	5823.2	5268.2	4025.4	2839.2	1797.8	1052.1	707.5	602.3	577.9	577.9	574.8
17.5°	5634.2	4972.4	3520.8	2160.6	1128.3	643.4	538.2	524.6	524.6	530.7	530.7
20°	5452.7	4690.3	3032.8	1550.7	710.5	510.8	486.4	483.4	486.4	494.1	494.1
22.5°	5297.2	4434.2	2576.9	1064.3	527.6	460.5	448.3	443.7	445.2	449.8	452.9
25°	5181.3	4217.6	2147.0	721.2	454.4	419.3	405.6	397.9	391.9	391.9	395.0
27.5°	5108.1	4034.6	1730.6	524.6	408.6	381.2	359.9	347.7	333.9	326.3	329.3
30°	5054.8	3860.7	1340.3	428.6	365.9	338.4	311.1	291.2	271.4	262.2	265.3
32.5°	5034.8	3720.5	1001.8	378.1	327.9	297.3	263.8	237.8	216.6	208.9	210.5
35°	5088.3	3609.2	733.4	341.6	297.3	259.2	221.1	192.1	175.4	170.8	172.3
37.5°	5228.5	3549.8	548.9	311.1	269.9	227.2	184.5	157.0	146.4	146.4	147.9
40°	5493.9	3548.2	440.7	289.7	245.5	196.6	152.5	132.6	126.5	129.6	131.1
42.5°	5881.2	3629.0	384.3	269.9	224.2	167.7	126.5	112.9	111.3	114.4	116.0
45°	6410.2	3777.0	353.8	253.2	201.2	140.3	106.7	97.6	97.6	102.1	103.7
47.5°	7058.2	3993.4	327.9	236.3	178.4	117.5	91.4	85.4	86.9	91.4	93.0
50°	7839.1	4266.3	301.9	218.1	161.6	97.6	79.3	74.8	76.3	82.4	83.9
52.5°	8727.9	4633.9	280.6	201.2	140.3	80.9	67.0	64.0	67.0	73.2	74.8
55°	9490.4	4963.2	254.7	187.6	112.9	67.0	54.8	54.8	57.9	65.5	67.0
57.5°	10223.8	5307.9	231.7	161.6	88.4	53.3	45.8	47.3	51.8	59.4	60.9
60°	11300.3	5891.8	204.4	135.7	67.0	42.7	38.1	39.7	45.8	53.3	54.8
62.5°	13128.6	6780.8	176.9	112.9	51.8	33.6	30.5	33.6	41.2	50.4	51.8
65°	14778.4	7142.2	144.9	94.5	39.7	25.9	25.9	30.5	39.7	48.8	50.4
67.5°	13858.9	6012.3	112.9	74.8	30.5	19.7	21.3	29.0	38.1	48.8	50.4
69°	12256.3	4916.0	96.0	59.4	25.9	18.2	19.7	29.0	38.1	47.3	48.8
70°	11007.6	4150.5	85.4	50.4	22.8	18.2	19.7	27.5	38.1	47.3	48.8
72.5°	7372.4	2241.5	68.7	36.6	21.3	16.8	16.8	27.5	36.6	45.8	47.3
75°	3168.5	619.1	54.8	25.9	18.2	15.3	15.3	25.9	35.1	44.2	47.3
77.5°	579.4	157.0	44.2	22.8	18.2	15.3	13.7	24.4	33.6	42.7	44.2
80°	230.2	77.8	35.1	19.7	16.8	13.7	12.2	22.8	32.0	41.2	42.7
82.5°	138.8	44.2	29.0	18.2	16.8	12.2	10.7	19.7	30.5	39.7	41.2
85°	112.9	30.5	22.8	18.2	15.3	12.2	9.2	18.2	27.5	38.1	39.7
87.5°	54.8	21.3	21.3	16.8	15.3	12.2	9.2	16.8	25.9	36.6	38.1
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)