

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: P321921

Luminaire Tested: **GAN-SA7B-740-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321921
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7B-740-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28755 lumens
Efficiency: N/A
Efficacy: 97.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

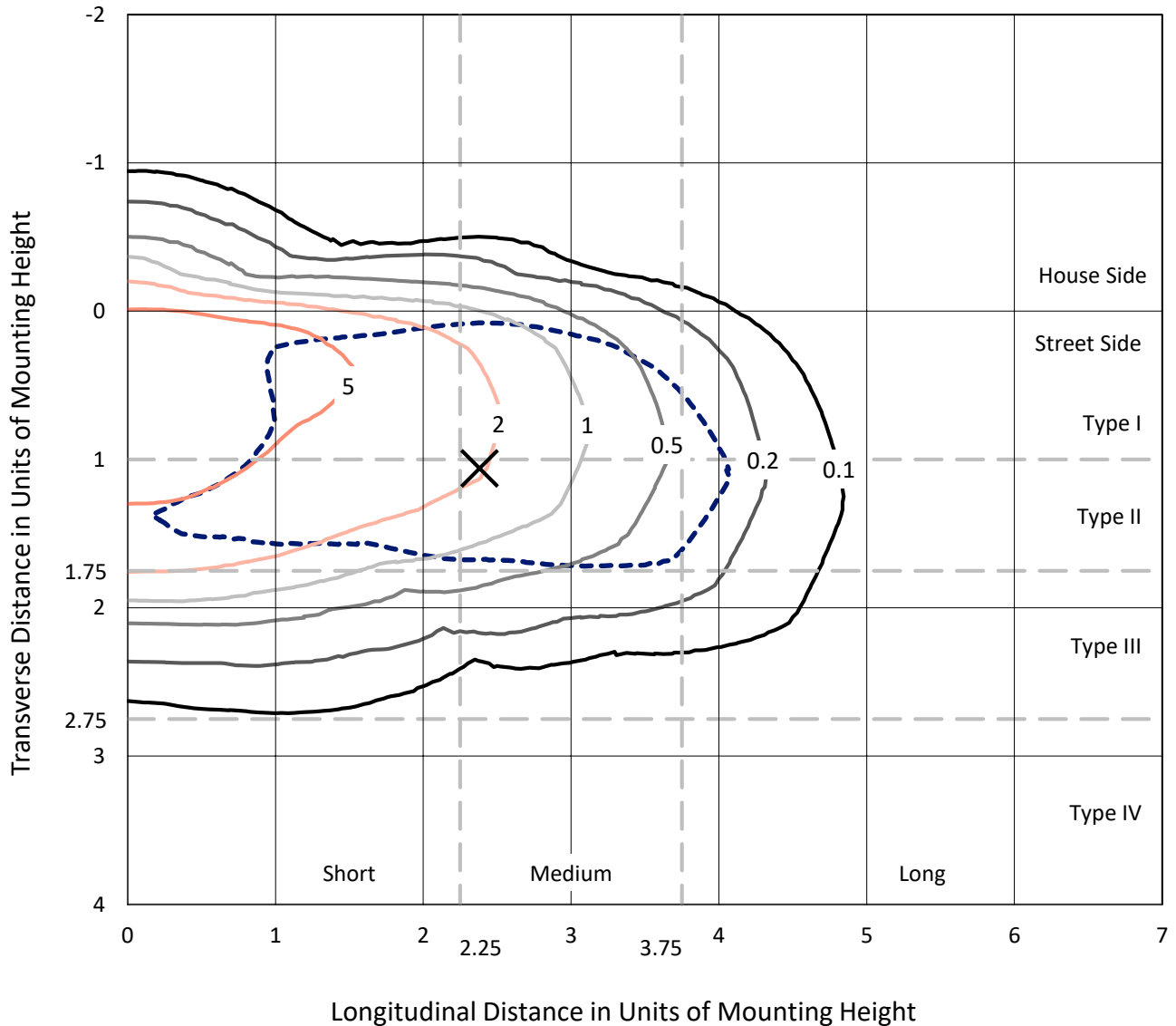
Input Watts (W): 295
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

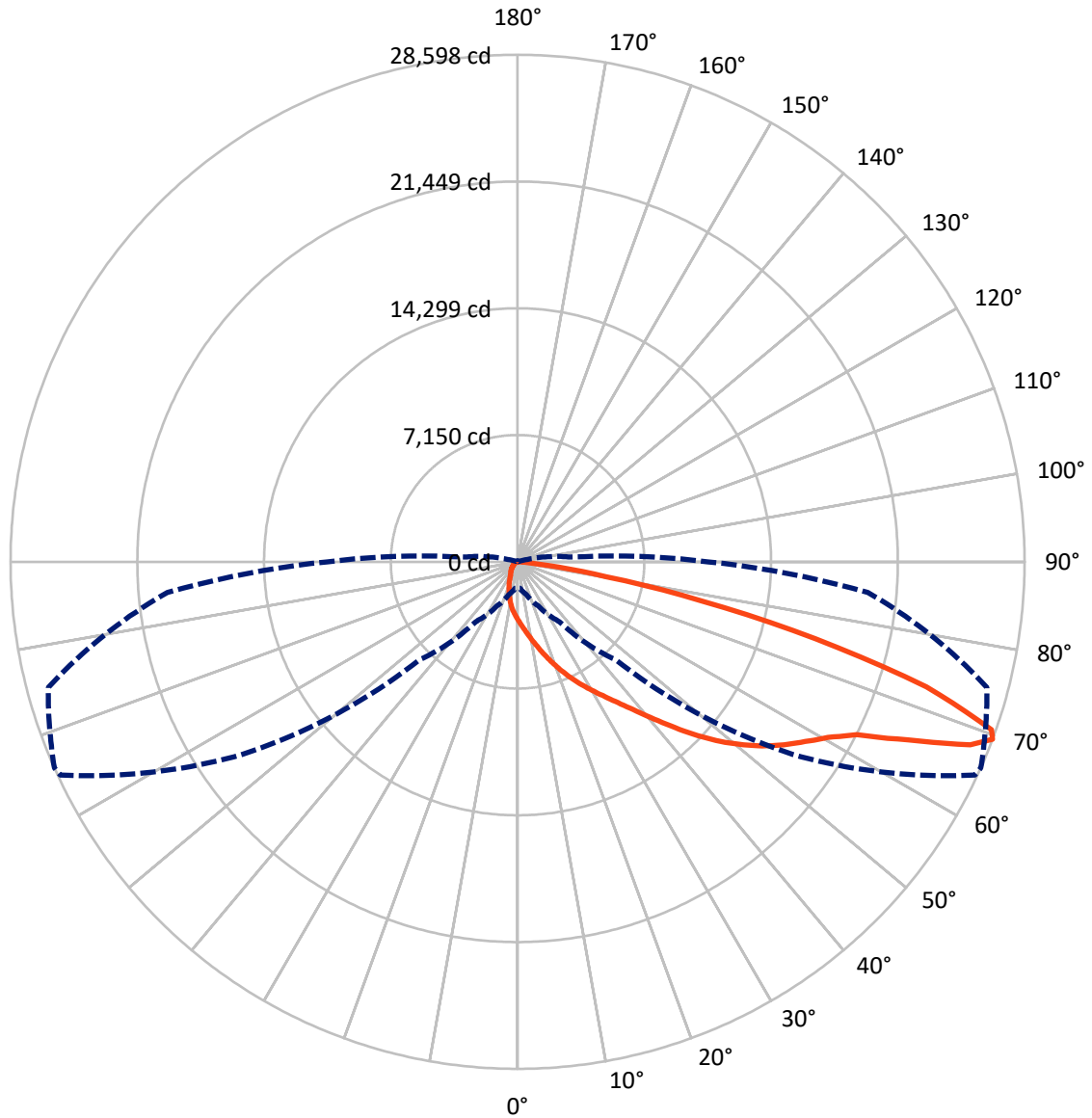
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1724.9	0.0	1724.9
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	27030.1	0.0	27030.1
	% Fixture	94.0	0.0	94.0
Total	Lumens	28755.0	0.0	28755.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	316.3	1.1
10°-20°	941.4	3.3
20°-30°	1639.4	5.7
30°-40°	2876.3	10.0
40°-50°	4814.5	16.7
50°-60°	7076.8	24.6
60°-70°	7266.1	25.3
70°-80°	3587.1	12.5
80°-90°	237.2	0.8
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°	28755.0	100.0
0°-180°	28755.0	100.0

Coefficient of Utilization

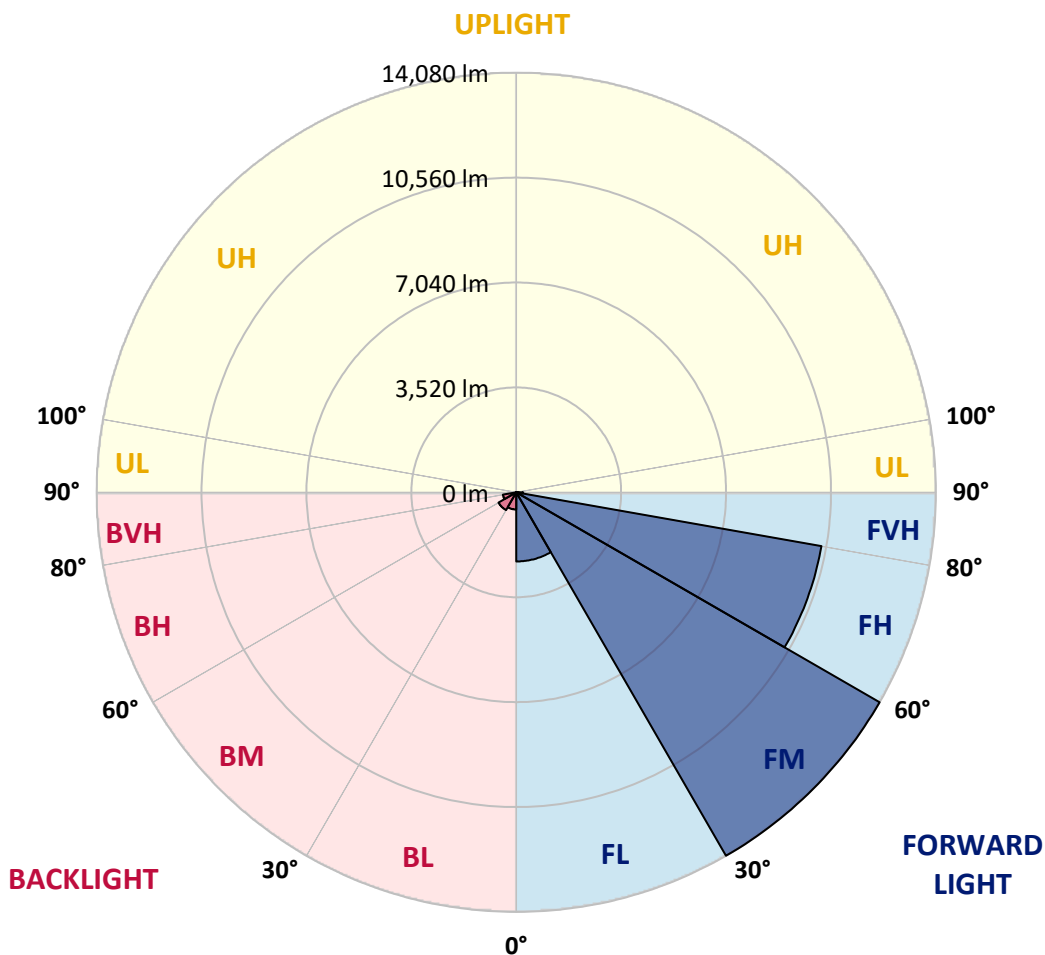


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2320.3	8.1			
FM (30°-60°)	14079.8	49.0			
FH (60°-80°)	10398.6	36.2			G4/12000
FVH (80°-90°)	231.4	0.8			G3/500
BL (0°-30°)	576.9	2.0	B2/1000		
BM (30°-60°)	687.7	2.4	B1/1000		
BH (60°-80°)	454.6	1.6	B1/500		G1/500
BVH (80°-90°)	5.7	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-G4
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3272.4	3272.4	3272.4	3272.4	3272.4	3272.4	3272.4	3272.4	3272.4	3272.4	3272.4
2.5°	3851.5	3835.1	3828.3	3798.2	3746.3	3706.7	3630.2	3541.5	3525.1	3439.0	3333.9
5°	4351.4	4337.7	4328.2	4285.8	4232.6	4132.9	3993.5	3828.3	3796.9	3633.0	3422.6
7.5°	4699.7	4724.2	4724.2	4696.9	4630.0	4554.9	4384.2	4158.8	4119.2	3867.9	3541.5
10°	4903.2	4933.2	4956.4	4979.6	4970.1	4940.0	4778.9	4524.8	4477.0	4143.8	3679.4
12.5°	4922.3	4952.3	5017.9	5114.8	5209.1	5277.4	5176.3	4930.5	4875.8	4463.4	3843.3
15°	4815.7	4847.2	4948.2	5136.7	5364.8	5564.2	5597.0	5379.8	5323.8	4844.4	4048.2
17.5°	4630.0	4650.5	4795.3	5056.1	5414.0	5780.0	5978.0	5861.9	5810.0	5280.1	4276.3
20°	4492.1	4507.1	4634.1	4914.1	5383.9	5915.2	6338.6	6374.1	6319.5	5747.2	4523.5
22.5°	4728.3	4755.6	4759.7	4892.2	5302.0	5982.1	6655.5	6878.1	6837.1	6243.0	4766.6
25°	5374.3	5405.8	5302.0	5220.0	5371.6	6012.2	6927.2	7394.3	7361.6	6777.0	5011.1
27.5°	6228.0	6260.7	6126.9	5882.4	5736.3	6125.5	7169.0	7918.8	7917.4	7342.4	5274.6
30°	7066.6	7099.3	6962.8	6718.3	6382.3	6446.5	7377.9	8467.8	8476.0	7925.6	5554.6
32.5°	7946.1	7987.1	7846.4	7532.3	7181.3	7001.0	7671.6	9019.6	9066.1	8601.7	5870.1
35°	8945.9	8951.3	8753.3	8424.1	8019.9	7742.6	8142.8	9638.3	9748.9	9438.9	6270.3
37.5°	9926.5	9966.1	9803.6	9284.6	8913.1	8599.0	8843.4	10411.3	10568.4	10461.9	6793.4
40°	10653.1	10736.4	10713.2	10153.2	9800.8	9576.9	9713.4	11330.5	11529.9	11652.8	7453.1
42.5°	11109.3	11172.1	11278.6	10941.3	10621.7	10658.6	10740.5	12401.3	12647.1	13010.4	8211.1
45°	11632.4	11662.4	11751.2	11602.3	11386.5	11758.0	11830.4	13607.3	13865.4	14470.4	9052.4
47.5°	12271.5	12342.6	12367.1	12230.6	12132.2	12730.4	12880.7	14704.0	15065.9	16034.3	9942.9
50°	13085.5	13104.7	13147.0	13058.2	12959.9	13566.3	13823.1	15855.4	16184.5	17603.6	10821.1
52.5°	13881.8	13950.1	14097.6	14041.6	14002.0	14277.9	14663.0	16893.3	17260.7	18912.0	11697.9
55°	14111.2	14170.0	14679.4	15027.7	15350.0	15154.7	15466.1	17823.4	18220.9	20081.1	12542.0
57.5°	13194.8	13313.6	14195.9	15102.8	16439.9	16517.8	16569.7	18778.1	19134.6	20977.0	13420.2
60°	10878.4	10901.7	12349.4	13905.0	16259.6	17707.4	18181.3	19803.8	20102.9	21811.5	14471.8
62.5°	6919.0	7155.3	8743.7	10939.9	14353.0	17535.3	20130.2	21355.4	21464.6	22812.6	15979.6
65°	3295.6	3448.6	4593.1	6759.3	10396.3	15332.3	21475.5	24162.0	24211.2	24797.1	17994.2
67.5°	1824.7	1898.4	2443.4	3638.4	6077.7	10842.9	20932.0	27486.3	27532.8	26823.9	19761.5
69°	1427.2	1490.1	1918.9	2742.5	4120.6	7793.1	18942.0	28460.1	28598.1	27404.4	19824.3
70°	1211.4	1272.9	1652.6	2316.4	3313.4	6021.7	16860.6	28218.4	28364.5	27349.8	19355.8
72.5°	741.6	777.1	1100.8	1630.7	2220.8	3029.3	10397.7	23864.3	24111.5	25088.0	16635.2
75°	499.9	519.0	688.4	1125.4	1588.4	1559.7	5401.7	16821.0	17356.3	19515.6	12286.6
77.5°	357.8	375.6	461.6	728.0	1113.1	1029.8	2446.1	10453.7	10568.4	11704.7	6700.5
80°	203.5	219.9	326.4	433.0	755.3	687.0	972.4	4993.3	5050.7	5019.2	2237.1
82.5°	106.5	120.2	178.9	285.4	484.9	449.3	404.3	1671.7	1679.9	1397.2	490.3
85°	20.5	24.6	88.8	195.3	249.9	195.3	165.3	392.0	400.2	353.7	121.6
87.5°	0.0	1.4	35.5	43.7	49.2	50.5	53.3	76.5	81.9	110.6	32.8
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°	3272.4	3272.4	3272.4	3272.4	3272.4	3272.4	3272.4	3272.4	3272.4	3272.4	3272.4
2.5°	3287.4	3238.3	3144.0	3034.8	2950.1	2866.8	2801.2	2732.9	2708.3	2696.1	2694.7
5°	3320.2	3216.4	3017.0	2812.1	2644.2	2485.7	2372.4	2264.5	2213.9	2190.7	2181.2
7.5°	3374.8	3208.2	2887.3	2574.5	2332.8	2134.7	1977.7	1860.2	1801.5	1776.9	1767.3
10°	3439.0	3197.3	2735.7	2323.2	2014.5	1809.7	1654.0	1537.9	1473.7	1446.4	1432.7
12.5°	3514.2	3178.2	2560.8	2069.2	1742.7	1537.9	1349.4	1206.0	1132.2	1100.8	1085.8
15°	3607.0	3159.1	2377.8	1830.1	1503.7	1253.8	1047.6	950.6	935.6	930.1	931.5
17.5°	3698.5	3129.0	2178.4	1593.9	1252.4	979.3	874.1	868.6	871.4	871.4	871.4
20°	3780.5	3060.7	1961.3	1391.7	1013.4	826.3	804.4	794.9	788.1	782.6	775.8
22.5°	3844.7	2969.2	1752.3	1191.0	827.7	756.6	722.5	692.5	667.9	651.5	643.3
25°	3888.4	2847.7	1561.1	998.4	744.4	688.4	626.9	576.4	538.1	514.9	505.3
27.5°	3921.2	2716.5	1390.4	835.9	687.0	609.1	528.6	468.5	428.9	408.4	400.2
30°	3944.4	2567.7	1240.1	734.8	622.8	525.8	439.8	381.1	352.4	341.4	336.0
32.5°	3966.2	2402.4	1098.1	687.0	562.7	449.3	368.8	323.7	305.9	292.3	288.2
35°	4020.9	2249.4	962.9	636.5	501.2	383.8	316.9	284.1	266.3	258.1	255.4
37.5°	4150.6	2136.1	833.1	584.6	439.8	331.9	277.3	254.0	237.6	229.5	226.7
40°	4359.6	2078.7	723.9	528.6	379.7	292.3	251.3	229.5	211.7	199.4	196.7
42.5°	4666.9	2086.9	647.4	472.6	331.9	260.9	226.7	200.8	181.6	170.7	168.0
45°	5039.7	2147.0	594.1	417.9	292.3	236.3	199.4	172.1	154.3	144.8	142.0
47.5°	5444.0	2244.0	550.4	368.8	260.9	213.1	172.1	143.4	128.4	120.2	118.8
50°	5870.1	2338.2	505.3	321.0	233.5	189.8	144.8	118.8	106.5	99.7	97.0
52.5°	6301.7	2447.5	464.4	277.3	210.3	162.5	120.2	97.0	87.4	81.9	79.2
55°	6766.1	2529.4	424.8	243.1	187.1	137.9	99.7	80.6	72.4	65.6	64.2
57.5°	7312.4	2656.4	383.8	210.3	159.8	114.7	81.9	64.2	57.4	50.5	49.2
60°	8049.9	2805.3	340.1	185.7	131.1	94.2	66.9	51.9	43.7	38.2	36.9
62.5°	9022.3	2970.6	285.4	162.5	106.5	76.5	53.3	41.0	31.4	24.6	24.6
65°	10255.6	3239.6	233.5	136.6	87.4	62.8	41.0	30.0	17.8	10.9	10.9
67.5°	10975.4	3286.1	188.5	112.0	71.0	53.3	34.1	20.5	5.5	1.4	0.0
69°	10744.6	3017.0	159.8	95.6	61.5	50.5	31.4	15.0	2.7	0.0	0.0
70°	10310.3	2758.9	140.7	84.7	56.0	47.8	30.0	10.9	2.7	0.0	0.0
72.5°	8519.7	1964.0	106.5	62.8	41.0	42.3	27.3	6.8	2.7	0.0	0.0
75°	6206.1	1193.7	76.5	43.7	25.9	31.4	19.1	2.7	1.4	0.0	0.0
77.5°	3452.7	562.7	47.8	24.6	16.4	19.1	9.6	0.0	0.0	0.0	0.0
80°	1121.3	153.0	21.9	13.7	9.6	10.9	4.1	0.0	0.0	0.0	0.0
82.5°	207.6	43.7	12.3	6.8	2.7	2.7	0.0	0.0	0.0	0.0	0.0
85°	45.1	17.8	6.8	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	15.0	5.5	1.4	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)