

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: P322942

Luminaire Tested: **GAN-SA8D-750-U-T4W-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P322942  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA8D-750-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 45070 lumens  
Efficiency: N/A  
Efficacy: 88.2 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

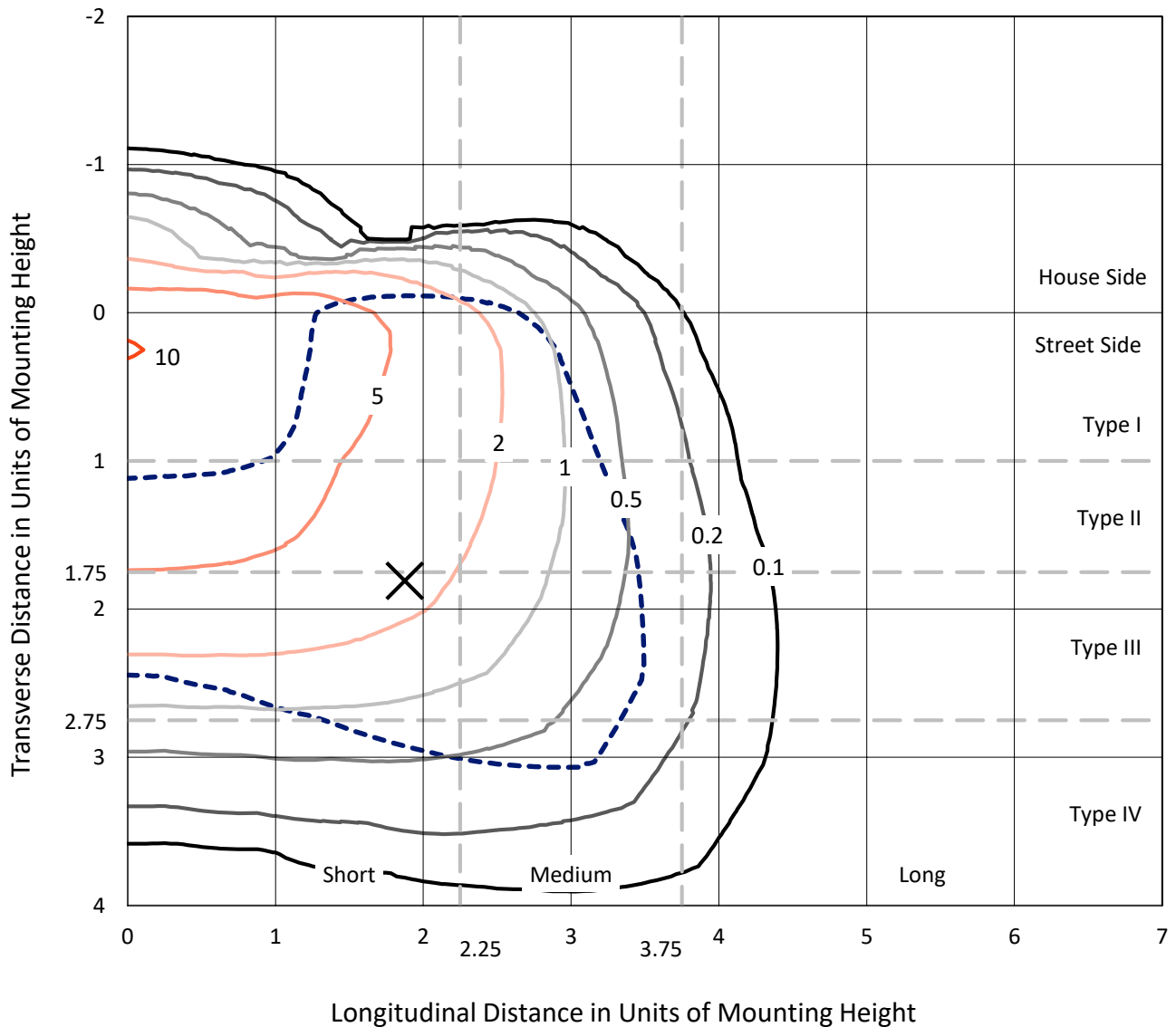
Input Watts (W): 511  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P322942  
 CATALOG NUMBER: GAN-SA8D-750-U-T4W-HSS

### Iso-Footcandle Lines of Horizontal Illumination

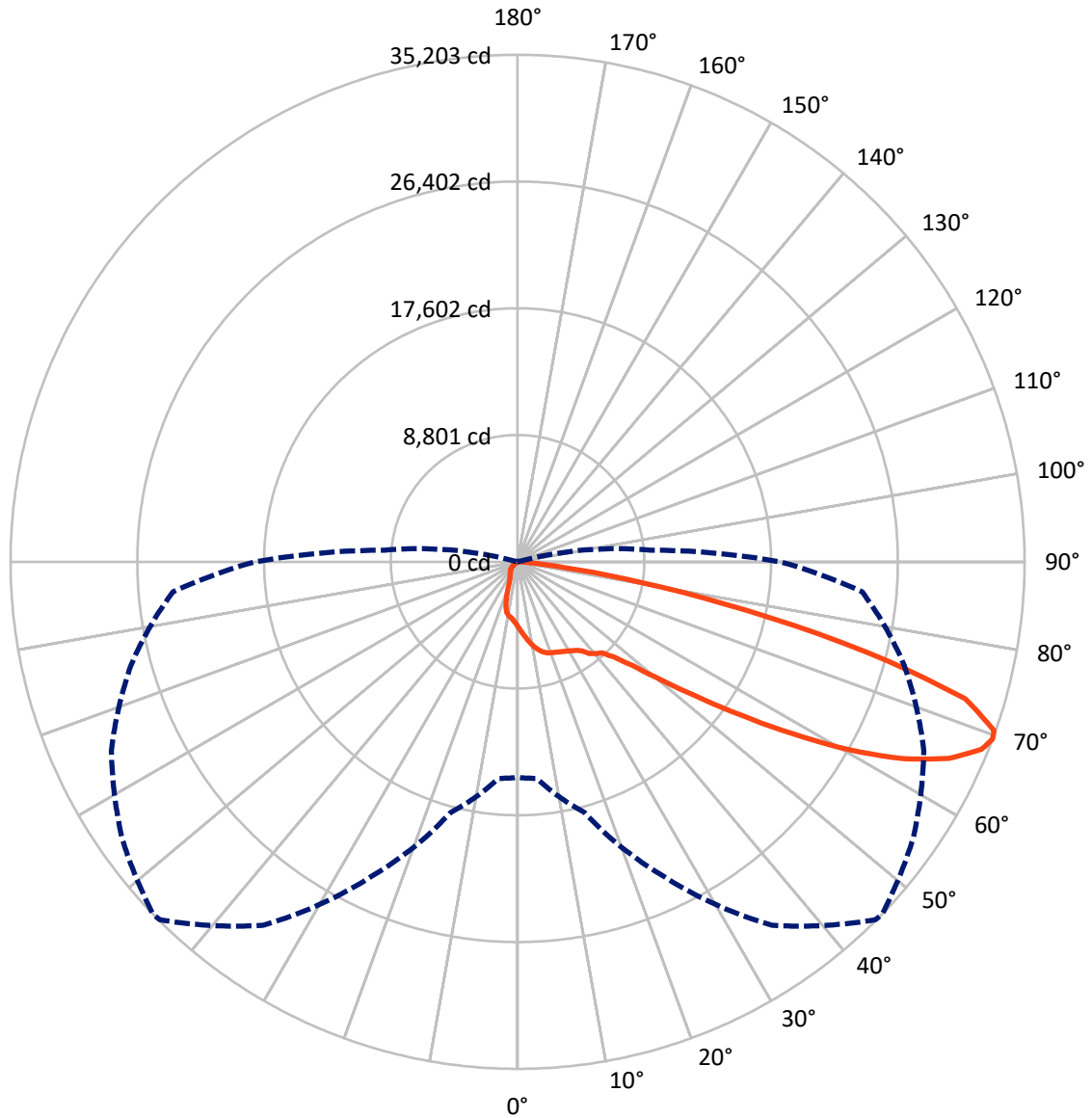
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 fc  
 Type IV - Short - N/A

REPORT NUMBER: P322942  
CATALOG NUMBER: GAN-SA8D-750-U-T4W-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P322942  
 CATALOG NUMBER: GAN-SA8D-750-U-T4W-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4625.4	0.0	4625.4
	% Fixture	10.3	0.0	10.3
<b>Street Side</b>	Lumens	40444.6	0.0	40444.6
	% Fixture	89.7	0.0	89.7
<b>Total</b>	Lumens	45070.0	0.0	45070.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	449.5	1.0
10°-20°	1363.6	3.0
20°-30°	2144.5	4.8
30°-40°	3075.3	6.8
40°-50°	5315.2	11.8
50°-60°	10500.7	23.3
60°-70°	14675.6	32.6
70°-80°	7089.9	15.7
80°-90°	455.7	1.0
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°	45070.0	100.0
0°-180°	45070.0	100.0



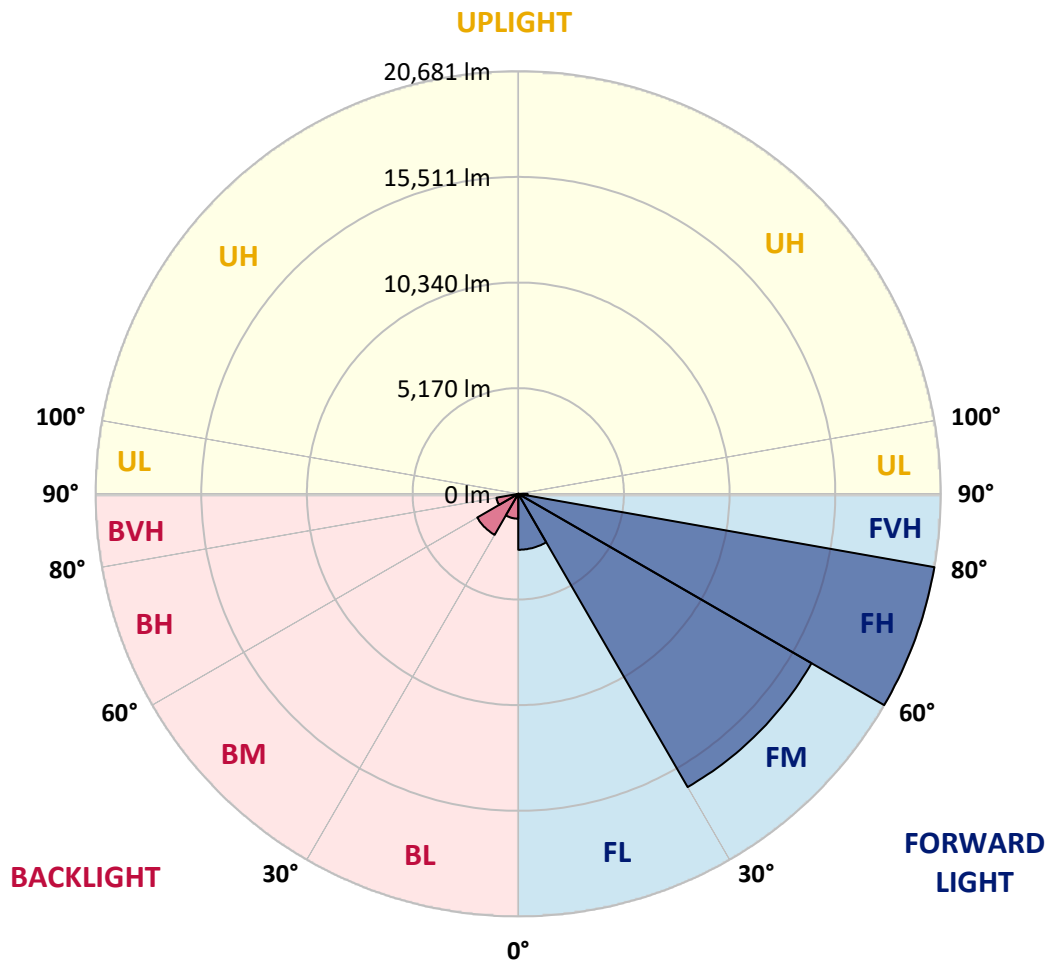
REPORT NUMBER: P322942  
 CATALOG NUMBER: GAN-SA8D-750-U-T4W-HSS

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2738.5	6.1			
FM (30°-60°)	16573.2	36.8			
FH (60°-80°)	20681.0	45.9			G5
FVH (80°-90°)	451.9	1.0			G3/500
BL (0°-30°)	1219.1	2.7	B3/2500		
BM (30°-60°)	2317.9	5.1	B2/2500		
BH (60°-80°)	1084.6	2.4	B3/2500		G3/2500
BVH (80°-90°)	3.8	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-G5**

Type IV Short





REPORT NUMBER: P322942

CATALOG NUMBER: GAN-SA8D-750-U-T4W-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	4515.8	4515.8	4515.8	4515.8	4515.8	4515.8	4515.8	4515.8	4515.8	4515.8	4515.8
2.5°	5016.7	5010.3	4980.7	4968.1	4896.2	4854.0	4837.0	4784.2	4708.1	4632.1	4547.5
5°	5587.2	5585.1	5530.2	5477.3	5342.1	5215.3	5192.1	5069.5	4898.3	4737.7	4577.1
7.5°	6170.5	6143.0	6088.0	5986.6	5790.1	5587.2	5568.2	5394.9	5151.9	4919.5	4689.1
10°	6664.9	6648.0	6576.2	6421.9	6191.6	5961.3	5938.0	5724.6	5449.9	5164.6	4870.9
12.5°	7049.5	7036.9	6941.8	6749.5	6504.3	6265.6	6233.9	6043.7	5749.9	5430.8	5084.3
15°	7284.1	7277.8	7161.5	6956.6	6715.7	6508.6	6481.1	6314.2	6041.6	5707.7	5316.7
17.5°	7339.0	7341.2	7220.7	7013.6	6815.0	6667.1	6645.9	6519.1	6290.9	5959.1	5549.2
20°	7216.5	7241.8	7134.1	6954.4	6831.9	6753.7	6736.8	6660.7	6468.4	6155.7	5735.1
22.5°	7043.2	7055.9	6981.9	6861.5	6810.7	6825.5	6817.1	6774.8	6612.1	6324.7	5919.0
25°	6937.5	6937.5	6893.2	6791.7	6825.5	6916.4	6918.5	6910.1	6781.2	6531.8	6143.0
27.5°	6933.3	6920.6	6869.9	6793.8	6886.8	7026.3	7034.7	7091.8	7011.5	6783.3	6421.9
30°	7102.4	7087.6	6979.8	6880.5	6998.8	7148.9	7170.0	7294.7	7254.5	7055.9	6732.6
32.5°	7497.5	7444.7	7205.9	7043.2	7132.0	7311.6	7339.0	7537.7	7601.1	7391.9	7032.6
35°	8038.5	7871.6	7527.1	7351.7	7360.2	7548.2	7573.6	7865.2	8053.3	7700.4	7265.1
37.5°	8784.5	8702.0	8142.0	7672.9	7711.0	7996.2	8070.2	8387.2	8334.3	7869.4	7529.2
40°	10420.0	10291.1	9695.2	8573.1	8047.0	8359.7	8382.9	8552.0	8556.2	8251.9	8078.7
42.5°	12647.3	12594.5	11966.9	10206.6	8708.4	8602.7	8645.0	8930.3	9249.3	9059.2	9050.7
45°	15113.4	15085.9	14420.3	12374.7	10046.0	9399.4	9452.2	9834.7	10445.4	10487.7	10756.0
47.5°	17097.7	17085.0	16702.5	14794.3	12093.7	10749.7	10766.6	11172.3	12245.8	12776.2	13205.2
50°	18906.5	18967.8	18665.6	17412.5	14883.1	12865.0	12824.8	13095.3	14819.7	15688.2	16220.7
52.5°	21421.2	21507.9	20660.5	19855.4	17809.8	15489.5	15457.8	15741.0	17913.3	18564.2	18659.3
55°	23642.2	23494.2	22824.4	22591.9	21378.9	18731.1	18722.7	18972.0	20905.6	21182.4	21357.8
57.5°	24622.7	24565.6	24888.9	25421.4	25117.1	22562.3	22543.3	22353.1	23583.0	23612.6	24151.4
60°	25241.8	25311.6	26302.6	27944.6	28703.2	26685.1	26562.6	25402.4	26139.9	26074.4	26651.3
62.5°	24776.9	24914.3	26697.8	29434.4	31386.9	30283.8	30110.6	28196.0	28324.9	28098.8	28635.6
65°	22308.7	22522.2	25444.7	29153.3	32718.2	33096.5	32921.1	30662.1	30059.9	29687.9	29390.0
67.5°	18114.1	18240.9	21292.3	26708.4	32118.1	34774.3	34738.4	32823.9	31370.0	29419.6	27107.8
69°	14969.7	15094.4	18031.7	24134.5	30797.3	35133.6	35203.3	33517.0	31120.7	27788.2	24018.3
70°	12679.0	12812.2	15548.7	21928.4	29265.3	34966.6	35091.3	33451.5	30406.4	25899.0	21307.1
72.5°	6650.1	6764.3	9572.7	15107.1	23857.7	32107.5	32485.8	30624.1	25774.3	18809.3	12598.7
75°	2089.9	2155.4	3738.2	7896.9	16334.8	24965.0	25051.6	24022.5	18302.2	10346.1	5247.0
77.5°	796.7	777.6	1244.7	2909.8	8258.3	15719.9	16250.3	15012.0	9604.4	3657.9	1210.8
80°	429.0	431.1	646.6	1204.5	3533.2	8078.7	8526.6	7275.6	3412.8	1141.1	278.9
82.5°	186.0	194.4	363.5	638.2	1622.9	2979.6	3203.6	2666.8	1303.8	767.1	103.5
85°	40.2	44.4	175.4	346.6	661.4	836.8	877.0	864.3	830.5	595.9	40.2
87.5°	0.0	0.0	78.2	124.7	166.9	190.2	166.9	217.7	458.6	401.5	21.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P322942  
 CATALOG NUMBER: GAN-SA8D-750-U-T4W-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4515.8	4515.8	4515.8	4515.8	4515.8	4515.8	4515.8	4515.8	4515.8	4515.8	4515.8
2.5°	4520.1	4482.0	4416.5	4344.7	4294.0	4241.1	4198.9	4179.9	4158.7	4143.9	4162.9
5°	4511.6	4437.7	4310.9	4188.3	4099.6	4027.7	3968.5	3945.3	3922.0	3905.1	3903.0
7.5°	4585.6	4482.0	4287.6	4108.0	3970.6	3873.4	3793.1	3759.3	3731.9	3719.2	3708.6
10°	4727.2	4594.0	4334.1	4099.6	3922.0	3757.2	3583.9	3450.8	3364.2	3324.0	3309.2
12.5°	4911.0	4744.1	4422.9	4143.9	3886.1	3569.1	3201.5	2884.5	2679.5	2611.9	2571.7
15°	5126.6	4919.5	4539.1	4201.0	3755.1	3176.1	2552.7	2138.5	1948.3	1910.3	1868.0
17.5°	5333.6	5105.4	4678.6	4211.5	3467.7	2537.9	1870.2	1589.1	1515.1	1540.5	1546.8
20°	5515.4	5289.3	4815.9	4118.6	2945.8	1904.0	1447.5	1377.8	1405.3	1453.9	1462.3
22.5°	5699.2	5466.8	4942.7	3873.4	2278.0	1445.4	1303.8	1320.7	1348.2	1396.8	1405.3
25°	5923.2	5682.3	5061.0	3423.3	1709.6	1229.9	1238.3	1263.7	1291.1	1335.5	1339.8
27.5°	6181.0	5954.9	5139.2	2838.0	1267.9	1130.5	1158.0	1196.1	1223.5	1265.8	1274.2
30°	6523.4	6314.2	5164.6	2231.5	1062.9	1041.8	1054.5	1101.0	1141.1	1179.1	1185.5
32.5°	6844.6	6669.2	5080.1	1684.2	984.7	959.4	959.4	986.9	1033.3	1069.3	1077.7
35°	7140.4	7026.3	4809.6	1232.0	925.6	883.3	862.2	862.2	891.8	921.3	929.8
37.5°	7531.3	7527.1	4372.1	982.6	868.5	819.9	775.5	741.7	731.2	737.5	741.7
40°	8201.2	8207.6	3801.6	881.2	819.9	754.4	686.8	625.5	568.4	549.4	547.3
42.5°	9247.2	9152.1	3203.6	832.6	777.6	686.8	585.3	502.9	414.2	386.7	384.6
45°	10908.2	10344.0	2569.6	788.2	733.3	610.7	483.9	371.9	300.1	278.9	278.9
47.5°	13327.8	11909.8	1990.6	739.6	674.1	524.1	365.6	268.4	219.8	209.2	211.3
50°	15829.8	13444.0	1525.7	678.3	602.3	433.2	270.5	194.4	166.9	166.9	169.1
52.5°	18048.6	14568.2	1189.7	612.8	513.5	340.2	205.0	152.1	139.5	137.4	139.5
55°	20125.8	15293.0	910.8	536.7	407.8	253.6	156.4	124.7	116.2	112.0	109.9
57.5°	22129.1	15652.3	682.6	433.2	295.8	183.8	124.7	105.7	97.2	90.9	88.8
60°	23462.5	15360.6	469.1	319.1	205.0	133.1	103.5	90.9	80.3	74.0	71.8
62.5°	24214.8	14564.0	302.2	230.3	145.8	99.3	82.4	76.1	61.3	54.9	54.9
65°	23910.5	13249.6	211.3	164.8	105.7	74.0	61.3	61.3	44.4	35.9	33.8
67.5°	21188.8	11193.5	160.6	122.6	76.1	54.9	46.5	52.8	27.5	16.9	16.9
69°	18230.3	9276.8	137.4	101.4	63.4	44.4	40.2	48.6	19.0	12.7	10.6
70°	15844.6	8002.6	124.7	88.8	52.8	38.0	35.9	46.5	19.0	10.6	8.5
72.5°	9479.7	4463.0	95.1	63.4	33.8	29.6	29.6	52.8	19.0	10.6	8.5
75°	3831.2	1572.2	69.7	44.4	25.4	25.4	35.9	67.6	16.9	8.5	6.3
77.5°	868.5	344.4	40.2	27.5	16.9	25.4	42.3	52.8	10.6	4.2	0.0
80°	211.3	84.5	25.4	16.9	10.6	19.0	31.7	29.6	2.1	0.0	0.0
82.5°	69.7	29.6	10.6	8.5	2.1	6.3	14.8	8.5	0.0	0.0	0.0
85°	29.6	16.9	4.2	2.1	0.0	0.0	2.1	0.0	0.0	0.0	0.0
87.5°	19.0	6.3	0.0	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)