

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: P322591

Luminaire Tested: **GAN-SA7A-750-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322591
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7A-750-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23409 lumens
Efficiency: N/A
Efficacy: 103.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

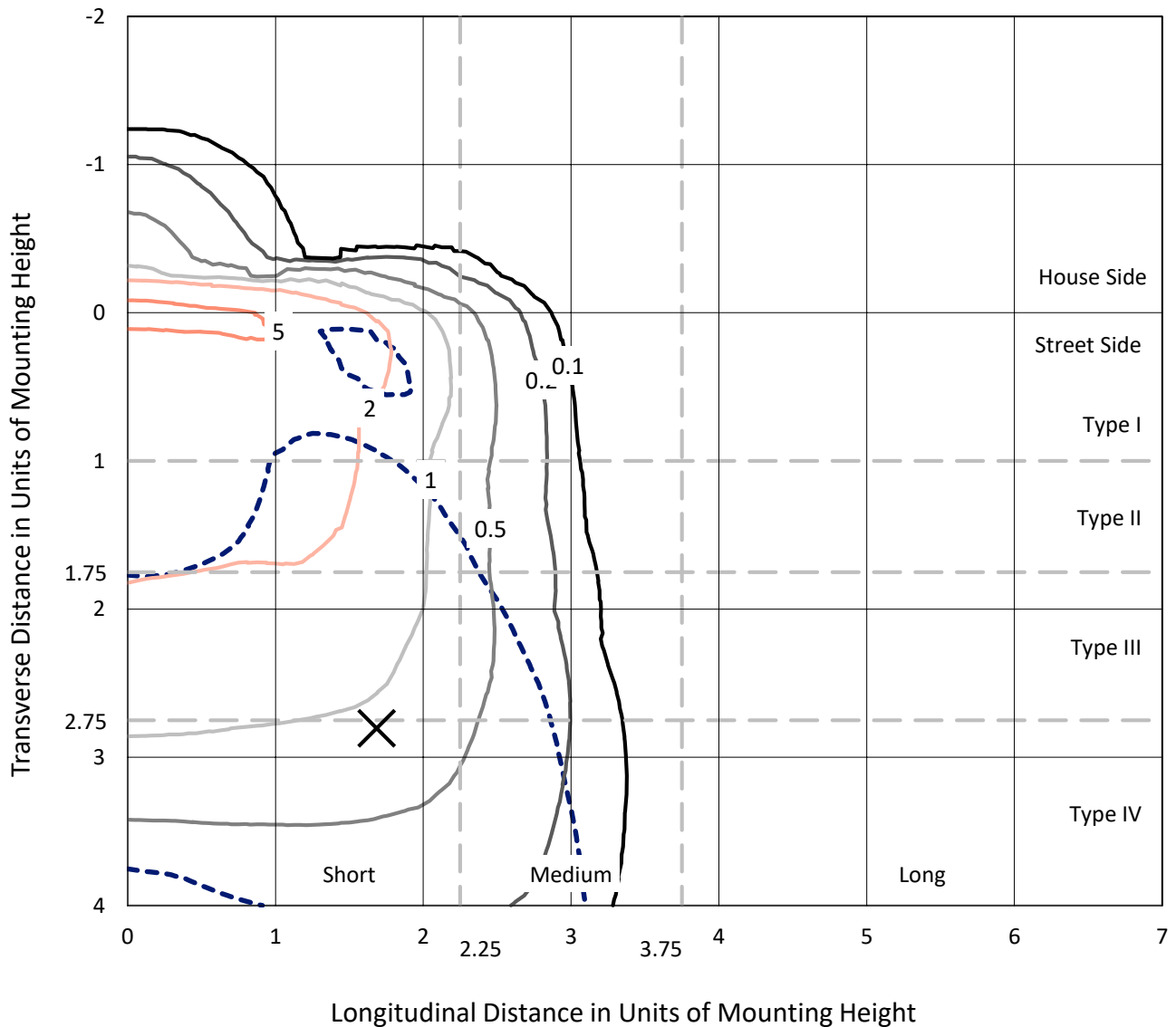
Input Watts (W): 226
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

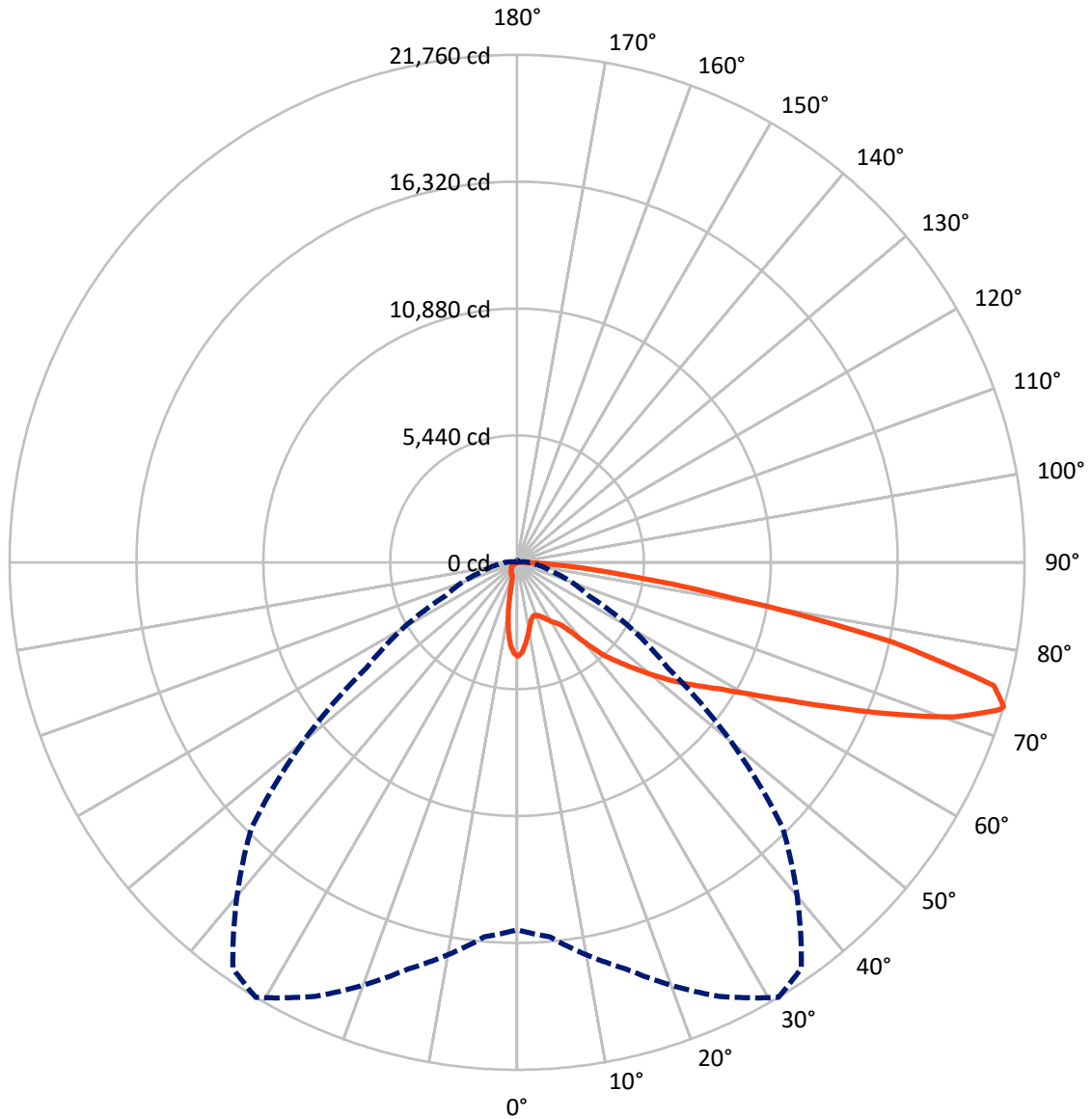
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 31-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2133.8	0.0	2133.8
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	21275.2	0.0	21275.2
	% Fixture	90.9	0.0	90.9
Total	Lumens	23409.0	0.0	23409.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	333.9	1.4
10°-20°	725.1	3.1
20°-30°	1086.4	4.6
30°-40°	1728.4	7.4
40°-50°	3086.5	13.2
50°-60°	4789.4	20.5
60°-70°	6366.8	27.2
70°-80°	4789.2	20.5
80°-90°	503.2	2.1
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°	23409.0	100.0
0°-180°	23409.0	100.0

Coefficient of Utilization



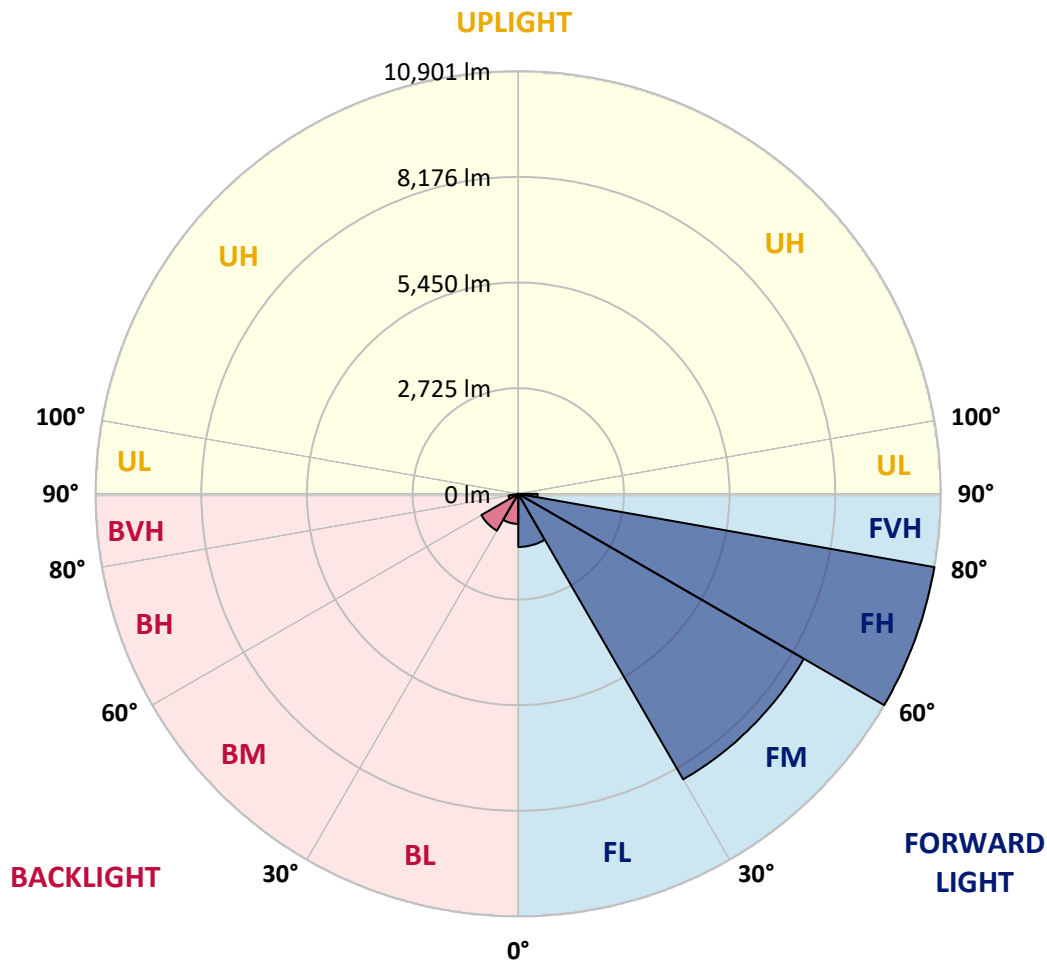
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1369.5	5.9			
FM (30°-60°)	8506.0	36.3			
FH (60°-80°)	10900.7	46.6			G4/12000
FVH (80°-90°)	499.0	2.1			G3/500
BL (0°-30°)	775.9	3.3	B2/1000		
BM (30°-60°)	1098.3	4.7	B2/2500		
BH (60°-80°)	255.3	1.1	B1/500		G1/500
BVH (80°-90°)	4.2	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	31°	35°	45°	55°	65°	75°	85°
0°	4027.6	4027.6	4027.6	4027.6	4027.6	4027.6	4027.6	4027.6	4027.6	4027.6	4027.6
2.5°	3816.8	3832.8	3850.0	3853.5	3882.1	3883.2	3924.5	3955.4	3986.3	4016.1	4026.4
5°	3425.0	3451.4	3482.3	3513.2	3573.9	3598.0	3698.8	3801.9	3900.4	3994.3	4040.2
7.5°	3006.9	3036.7	3080.2	3157.0	3224.6	3271.5	3430.8	3614.0	3797.3	3970.3	4069.9
10°	2625.5	2653.0	2698.8	2780.1	2884.4	2948.5	3162.7	3417.0	3686.2	3948.5	4114.6
12.5°	2382.6	2397.5	2422.7	2509.8	2603.7	2675.9	2927.9	3242.9	3594.6	3947.4	4186.8
15°	2338.0	2342.5	2321.9	2360.9	2434.2	2504.1	2759.5	3102.0	3524.7	3965.7	4280.7
17.5°	2409.0	2406.7	2338.0	2333.4	2391.8	2449.1	2677.0	3004.6	3475.4	4008.1	4402.1
20°	2516.7	2508.6	2389.5	2367.7	2429.6	2483.4	2671.3	2968.0	3457.1	4079.1	4549.9
22.5°	2659.8	2646.1	2459.4	2436.5	2502.9	2559.0	2742.3	3003.5	3473.1	4174.2	4721.7
25°	2837.4	2816.8	2579.7	2554.5	2622.0	2678.2	2869.5	3105.4	3521.3	4289.9	4939.4
27.5°	3037.9	3008.1	2772.1	2706.8	2783.6	2842.0	3039.0	3261.2	3596.9	4412.5	5206.3
30°	3226.9	3187.9	2974.9	2867.2	2961.1	3026.4	3222.3	3446.8	3718.3	4601.5	5571.7
32.5°	3417.0	3373.5	3155.8	3027.5	3112.3	3183.3	3411.3	3702.2	3946.2	4890.1	6057.4
35°	3854.6	3808.8	3541.9	3330.0	3328.8	3368.9	3675.9	4051.6	4247.5	5292.2	6637.0
37.5°	4591.2	4564.8	4310.5	3908.4	3800.8	3756.1	4036.7	4468.6	4680.5	5845.5	7291.1
40°	5397.6	5374.7	5089.4	4725.2	4561.4	4451.4	4554.5	5049.3	5292.2	6521.3	7958.9
42.5°	6308.3	6199.4	5690.8	5582.0	5435.4	5351.8	5259.0	5765.3	6043.6	7256.7	8621.0
45°	7135.3	6952.0	6292.2	6127.3	6094.0	6114.7	6166.2	6727.5	6889.0	8130.7	9280.8
47.5°	7627.9	7483.5	6977.2	6819.1	6810.0	6946.3	7335.8	7814.6	7731.0	8892.5	9861.6
50°	8096.4	7965.8	7545.4	7584.3	7626.7	7812.3	8663.4	8932.6	8499.6	9583.2	10394.2
52.5°	8475.5	8276.2	8056.3	8275.1	8483.5	8782.5	10033.4	9936.0	9044.8	10133.1	10850.1
55°	8694.3	8603.8	8710.4	8930.3	9322.1	9807.7	11326.7	10771.1	9443.5	10634.8	11153.7
57.5°	9496.2	9318.6	9530.5	9720.7	10231.6	10910.9	12434.4	11393.1	9731.0	10945.2	11223.6
60°	10466.4	10323.2	10448.1	10764.2	11453.8	12252.2	13469.9	11900.6	9881.1	11144.5	11042.6
62.5°	12010.5	11821.5	11743.6	12097.6	13011.7	13883.4	14255.7	12252.2	9847.8	11056.3	10421.7
65°	14079.3	13883.4	13535.2	13855.9	15018.6	15633.7	15134.3	12326.7	9618.7	10342.7	8852.4
67.5°	16198.5	16056.4	15758.6	16299.3	17348.5	17546.7	16063.3	12145.7	8881.0	8386.2	6254.4
70°	17598.3	17537.6	17731.1	18927.0	19862.9	19805.6	16915.5	11173.2	6922.2	5157.0	3094.0
72.5°	16589.1	16880.0	18309.6	20478.0	21621.3	21153.9	16478.0	8579.8	3956.5	1984.0	894.6
73°	15752.9	16125.2	18049.6	20536.5	21759.9	21247.8	16110.3	7875.3	3372.3	1565.9	678.1
75°	10959.0	11416.0	14943.0	19126.4	21111.5	20244.4	13428.7	4820.3	1562.5	694.2	273.8
77.5°	5320.8	5658.8	8228.1	13819.3	16418.4	15817.0	8359.8	1796.1	705.6	434.1	126.0
80°	1986.3	2208.5	3571.7	7033.3	9488.1	9736.7	3677.0	679.3	469.7	349.4	64.1
82.5°	520.1	579.6	1317.3	3136.4	4862.6	5089.4	1159.2	342.5	343.6	287.5	38.9
85°	166.1	190.2	411.2	1407.8	2291.0	2011.5	302.4	166.1	249.7	214.2	21.8
87.5°	20.6	26.3	130.6	331.0	505.2	280.6	47.0	49.3	106.5	119.1	12.6
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°	4027.6	4027.6	4027.6	4027.6	4027.6	4027.6	4027.6	4027.6	4027.6	4027.6	4027.6
2.5°	4036.7	4031.0	4032.1	4002.4	3982.9	3943.9	3903.9	3885.5	3866.1	3858.0	3866.1
5°	4057.3	4047.0	4017.3	3925.6	3828.2	3702.2	3584.3	3494.9	3382.7	3351.7	3383.8
7.5°	4089.4	4068.8	3981.7	3795.0	3578.5	3338.0	3067.6	2870.6	2709.1	2604.9	2642.7
10°	4136.4	4097.4	3922.2	3604.9	3217.7	2791.6	2407.8	2108.9	1896.9	1809.9	1806.4
12.5°	4215.4	4142.1	3848.9	3357.5	2776.7	2208.5	1705.6	1381.5	1209.6	1098.5	1096.2
15°	4302.5	4194.8	3756.1	3060.8	2263.5	1581.9	1098.5	852.2	741.1	705.6	701.0
17.5°	4409.0	4255.5	3635.8	2695.4	1726.3	1048.1	717.1	646.1	641.5	638.0	638.0
20°	4543.0	4327.7	3481.2	2277.2	1224.5	699.9	609.4	614.0	616.3	611.7	612.8
22.5°	4698.8	4401.0	3296.7	1828.2	828.2	585.3	583.1	588.8	591.1	588.8	589.9
25°	4879.8	4485.8	3072.2	1357.4	597.9	555.6	561.3	569.3	575.0	575.0	575.0
27.5°	5104.3	4588.9	2801.9	947.3	516.6	524.6	540.7	555.6	563.6	565.9	565.9
30°	5396.4	4717.2	2477.7	649.5	469.7	483.4	513.2	541.8	556.7	559.0	560.1
32.5°	5765.3	4861.5	2102.0	480.0	429.6	439.9	471.9	520.1	548.7	553.3	553.3
35°	6188.0	5028.7	1697.6	418.1	400.9	404.4	429.6	484.5	534.9	547.5	548.7
37.5°	6650.8	5193.7	1291.0	390.6	376.9	376.9	395.2	442.2	501.7	540.7	545.3
40°	7082.6	5293.3	904.9	368.8	355.1	355.1	371.1	405.5	461.6	520.1	532.7
42.5°	7481.2	5327.7	630.0	348.2	334.5	337.9	351.7	379.2	421.5	480.0	491.4
45°	7891.3	5322.0	459.3	324.2	313.9	324.2	334.5	355.1	386.0	419.3	421.5
47.5°	8200.6	5273.9	364.3	301.3	294.4	308.1	317.3	331.0	348.2	345.9	345.9
50°	8490.4	5157.0	293.2	270.3	274.9	291.0	295.5	300.1	301.3	279.5	277.2
52.5°	8710.4	4974.9	234.8	237.1	255.4	271.5	266.9	260.0	248.6	222.2	217.6
55°	8783.7	4624.4	184.4	195.9	226.8	247.4	230.2	215.4	193.6	171.8	167.2
57.5°	8650.8	4171.9	150.1	152.4	191.3	208.5	189.0	171.8	147.8	129.4	126.0
60°	8369.0	3669.0	123.7	114.5	147.8	162.7	150.1	132.9	111.1	97.4	96.2
62.5°	7810.0	3132.9	101.9	89.3	112.3	124.9	116.8	104.2	85.9	76.7	75.6
65°	6634.7	2506.3	82.5	72.2	87.1	97.4	90.5	81.3	67.6	60.7	59.6
67.5°	4631.2	1694.2	67.6	59.6	68.7	76.7	71.0	66.4	53.8	52.7	53.8
70°	2233.7	816.7	56.1	48.1	53.8	59.6	57.3	53.8	51.5	59.6	68.7
72.5°	640.3	273.8	44.7	40.1	43.5	47.0	49.3	48.1	56.1	72.2	83.6
73°	492.6	221.1	42.4	37.8	41.2	45.8	48.1	47.0	57.3	73.3	83.6
75°	210.8	106.5	32.1	30.9	34.4	40.1	42.4	42.4	57.3	74.5	80.2
77.5°	95.1	57.3	20.6	24.1	29.8	32.1	35.5	35.5	45.8	57.3	57.3
80°	53.8	30.9	16.0	18.3	21.8	21.8	21.8	19.5	20.6	22.9	25.2
82.5°	34.4	20.6	12.6	14.9	13.7	11.5	9.2	9.2	8.0	9.2	11.5
85°	19.5	11.5	11.5	9.2	5.7	4.6	5.7	4.6	1.1	0.0	1.1
87.5°	11.5	6.9	3.4	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)