

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: P321581

Luminaire Tested: **GAN-SA7D-730-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321581
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7D-730-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38439 lumens
Efficiency: N/A
Efficacy: 85.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

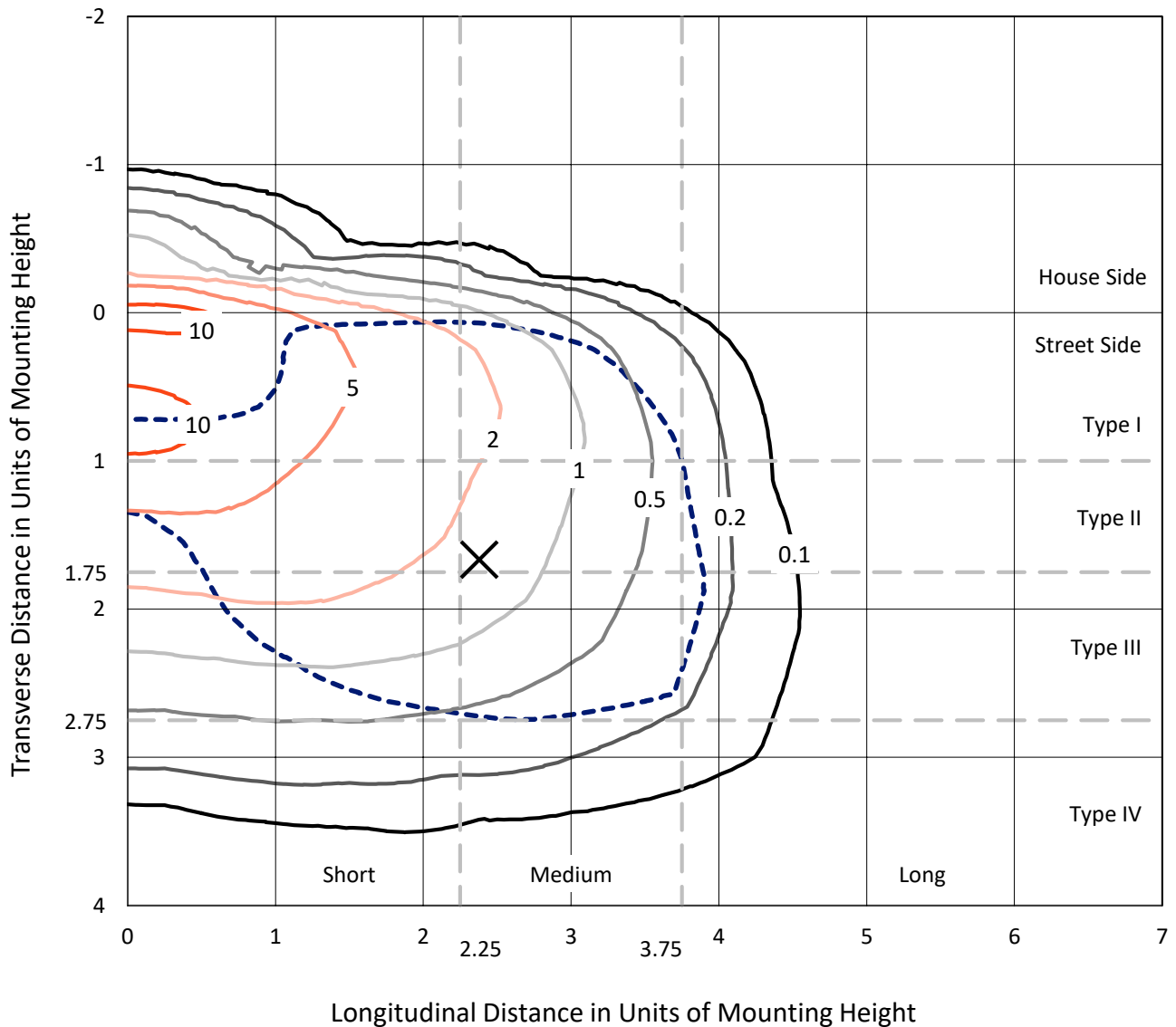
Input Watts (W): 448
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

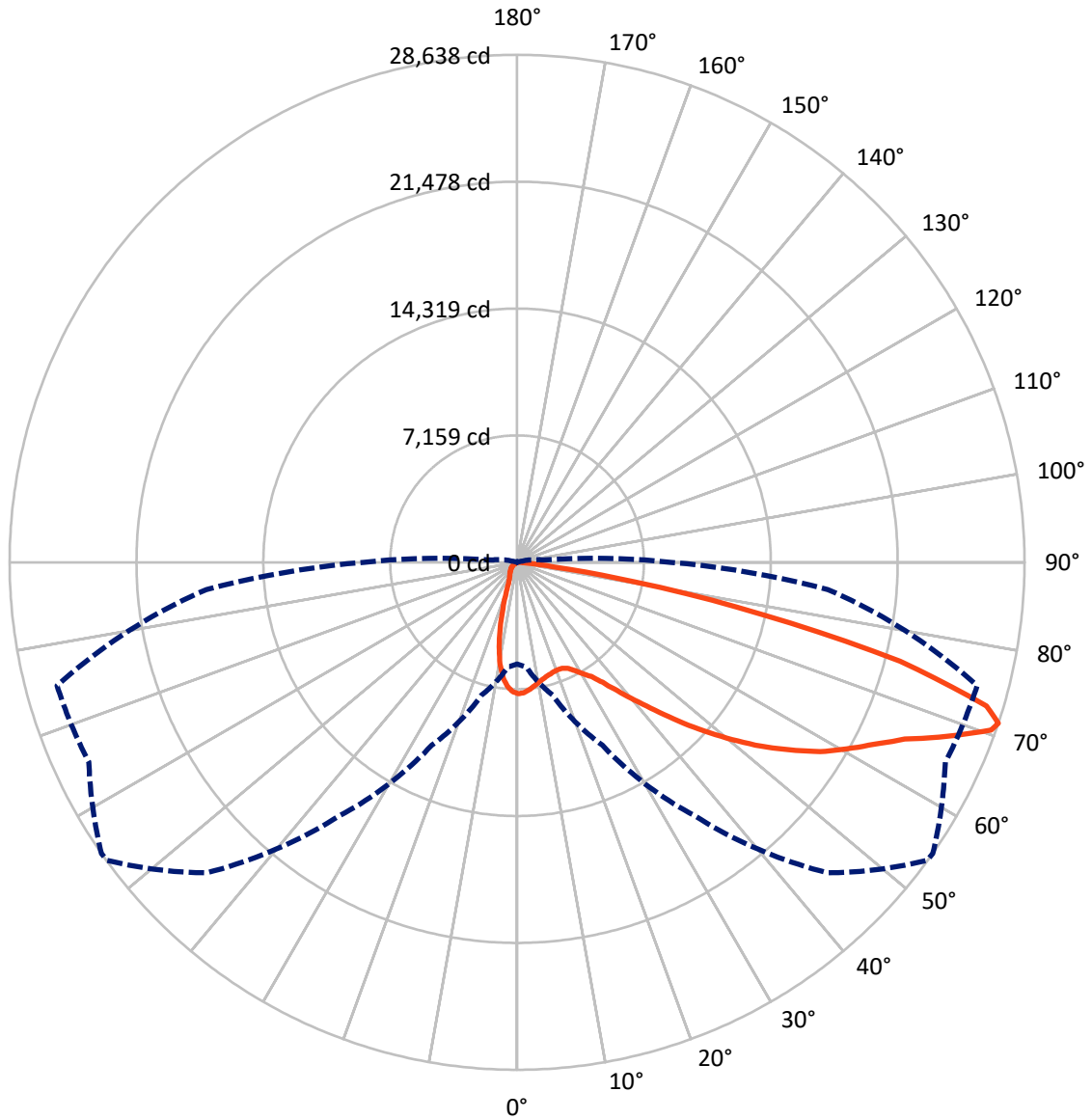
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.2 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3043.3	0.0	3043.3
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	35395.7	0.0	35395.7
	% Fixture	92.1	0.0	92.1
Total	Lumens	38439.0	0.0	38439.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	632.1	1.6
10°-20°	1426.9	3.7
20°-30°	2293.1	6.0
30°-40°	3896.1	10.1
40°-50°	6047.3	15.7
50°-60°	8130.4	21.2
60°-70°	9946.2	25.9
70°-80°	5815.3	15.1
80°-90°	251.4	0.7
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°	38439.0	100.0
0°-180°	38439.0	100.0

Coefficient of Utilization

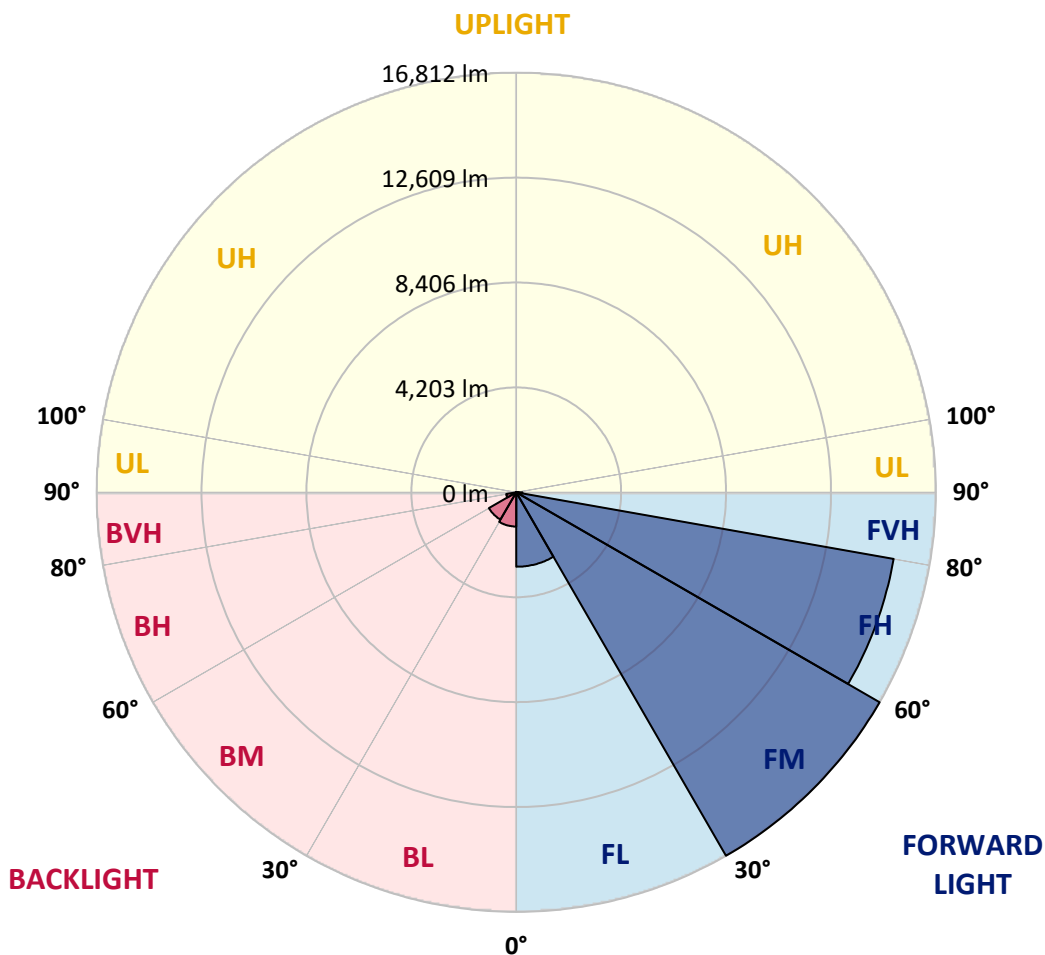


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2982.3	7.8			
FM (30°-60°)	16812.1	43.7			
FH (60°-80°)	15353.8	39.9			G5
FVH (80°-90°)	247.4	0.6			G3/500
BL (0°-30°)	1369.8	3.6	B3/2500		
BM (30°-60°)	1261.8	3.3	B2/2500		
BH (60°-80°)	407.7	1.1	B1/500		G1/500
BVH (80°-90°)	4.0	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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	7413.1	7413.1	7413.1	7413.1	7413.1	7413.1	7413.1	7413.1	7413.1	7413.1	7413.1
2.5°	7195.6	7204.3	7235.3	7249.1	7281.9	7337.2	7364.8	7366.5	7411.4	7428.6	7442.4
5°	6686.5	6738.2	6790.0	6845.3	6945.4	7078.3	7209.4	7221.5	7366.5	7473.5	7530.5
7.5°	6248.1	6294.7	6356.8	6444.8	6586.4	6795.2	7014.4	7040.3	7314.7	7558.1	7685.8
10°	5797.6	5835.6	5925.3	6054.8	6249.8	6529.4	6824.5	6867.7	7268.1	7672.0	7896.4
12.5°	5316.0	5338.5	5447.2	5633.6	5920.1	6275.7	6664.0	6721.0	7238.8	7803.2	8144.9
15°	4950.1	4960.5	5064.0	5257.3	5585.3	6047.8	6539.8	6608.8	7245.7	7960.2	8415.9
17.5°	4856.9	4862.1	4917.3	5050.2	5340.2	5844.2	6441.4	6525.9	7266.4	8113.8	8688.6
20°	5234.9	5198.7	5141.7	5121.0	5245.3	5721.6	6382.7	6477.6	7294.0	8250.2	8933.7
22.5°	6272.2	6165.2	5928.8	5612.9	5421.3	5730.3	6398.2	6493.1	7382.0	8417.6	9216.8
25°	7811.8	7663.4	7261.2	6639.9	6042.7	5978.8	6527.7	6624.3	7552.9	8617.8	9487.7
27.5°	9563.7	9417.0	8925.1	8037.9	7019.6	6470.7	6824.5	6914.3	7806.6	8795.6	9694.8
30°	11241.3	11199.9	10620.0	9612.0	8248.5	7268.1	7207.7	7283.7	7994.8	8902.6	9858.8
32.5°	12663.5	12598.0	12131.9	11151.6	9655.2	8226.0	7658.2	7680.6	8136.3	9040.7	10072.8
35°	13982.2	13901.1	13492.0	12565.2	11098.1	9396.3	8352.0	8319.2	8445.2	9318.6	10383.5
37.5°	15133.4	15207.6	14753.7	13871.7	12392.6	10613.1	9287.5	9189.1	8928.5	9770.8	10834.0
40°	16096.5	16096.5	15860.1	15124.8	13790.6	11871.3	10345.5	10216.1	9655.2	10468.1	11405.3
42.5°	16443.4	16517.7	16605.7	16189.7	15041.9	13179.6	11524.4	11389.8	10678.7	11457.1	12126.8
45°	16464.2	16581.5	17032.0	17030.3	16172.5	14479.3	12853.4	12789.5	11990.4	12727.4	13020.8
47.5°	16172.5	16319.2	17061.3	17482.5	17068.3	15689.2	14306.7	14227.3	13531.7	14284.2	13956.3
50°	15722.0	15884.2	16747.2	17660.3	17677.5	16742.0	15837.6	15718.5	15228.4	16063.7	14922.9
52.5°	14915.9	15230.1	16465.9	17701.7	18078.0	17651.6	17294.4	17242.6	17126.9	17777.6	15692.6
55°	13191.7	13540.3	15760.0	17715.5	18449.0	18457.7	18659.6	18673.4	18906.4	19379.3	16265.7
57.5°	12377.0	12573.8	14527.6	17781.1	18999.6	19372.4	20050.8	20157.8	20518.5	20899.9	16919.8
60°	11864.4	12097.4	13920.1	17691.3	19864.3	20572.0	21340.1	21376.3	21762.9	22468.9	17805.2
62.5°	11455.4	11684.9	13536.9	17346.1	20836.1	22014.9	22600.0	22603.5	22893.4	24338.1	18811.5
65°	10445.7	10639.0	12761.9	16957.8	21478.1	23442.3	24063.7	24041.2	24277.7	26309.2	19980.0
67.5°	8985.5	9133.9	11179.2	15485.5	21236.5	24740.2	26272.9	26198.7	25912.2	28012.7	20439.1
70°	6947.1	7000.6	8811.1	12905.2	18972.0	25239.1	28408.0	28370.0	26915.0	27707.2	18756.3
71°	5742.3	5918.4	7765.2	11389.8	17454.9	24778.2	28615.1	28637.5	26663.0	26875.3	17598.1
72.5°	3334.6	3484.8	5628.4	8747.3	14819.3	22855.5	27541.5	27703.8	25485.9	24445.1	15031.6
75°	714.6	764.6	2086.7	4233.8	8151.8	16018.9	21738.8	22317.0	20772.2	16629.9	9059.7
77.5°	497.1	536.8	894.1	1921.0	2694.3	7915.4	13504.1	14156.5	12409.8	6249.8	2899.7
80°	393.5	438.4	697.3	949.3	728.4	2552.7	6325.7	6724.4	4138.9	1394.6	488.5
82.5°	219.2	260.6	543.7	512.6	279.6	485.0	1770.9	2002.1	828.5	281.3	115.6
85°	63.9	77.7	350.4	372.8	119.1	93.2	302.0	374.5	157.1	74.2	51.8
87.5°	0.0	0.0	169.1	143.3	34.5	13.8	27.6	31.1	31.1	31.1	34.5
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°	7413.1	7413.1	7413.1	7413.1	7413.1	7413.1	7413.1	7413.1	7413.1	7413.1	7413.1
2.5°	7442.4	7454.5	7411.4	7354.4	7294.0	7219.8	7142.1	7081.7	7080.0	7050.6	7021.3
5°	7533.9	7527.0	7407.9	7226.7	7012.7	6790.0	6577.7	6337.8	6258.4	6160.0	6127.2
7.5°	7703.1	7654.7	7402.7	7005.8	6536.3	6070.3	5588.7	5103.7	4896.6	4710.2	4677.4
10°	7915.4	7823.9	7369.9	6674.4	5813.1	4953.6	4226.9	3567.6	3277.6	3055.0	3044.6
12.5°	8136.3	7996.5	7278.5	6173.8	4865.5	3657.4	2820.3	2171.3	1929.6	1774.3	1788.1
15°	8367.6	8158.7	7081.7	5499.0	3786.8	2482.0	1732.9	1351.4	1254.8	1215.1	1225.4
17.5°	8604.0	8270.9	6807.3	4686.0	2721.9	1601.7	1199.6	1092.5	1092.5	1101.2	1104.6
20°	8809.4	8331.3	6403.4	3774.7	1845.1	1166.8	1049.4	1033.9	1042.5	1056.3	1058.0
22.5°	9013.1	8334.8	5877.0	2851.3	1291.0	1021.8	999.3	992.4	997.6	1013.2	1014.9
25°	9178.8	8293.4	5217.6	2028.0	1030.4	963.1	952.7	949.3	952.7	971.7	971.7
27.5°	9246.1	8143.2	4413.3	1425.7	923.4	897.5	894.1	897.5	902.7	916.5	918.2
30°	9253.0	7880.8	3536.5	1032.1	837.1	809.5	816.4	828.5	823.3	819.8	823.3
32.5°	9270.3	7577.1	2682.2	849.2	764.6	721.5	712.8	712.8	692.1	680.0	673.1
35°	9327.2	7219.8	1945.2	762.9	690.4	640.3	607.5	569.6	529.9	509.2	504.0
37.5°	9417.0	6845.3	1392.9	705.9	624.8	567.8	505.7	438.4	381.4	365.9	365.9
40°	9580.9	6458.6	1030.4	661.1	573.0	502.3	409.1	321.0	269.3	260.6	260.6
42.5°	9839.8	6051.3	821.6	621.4	528.2	434.9	312.4	233.0	195.0	189.9	188.1
45°	10109.1	5602.5	718.0	583.4	479.8	357.3	231.3	172.6	150.2	145.0	145.0
47.5°	10378.3	5124.4	668.0	547.1	433.2	277.9	172.6	136.4	126.0	126.0	127.7
50°	10606.2	4625.6	631.7	507.4	372.8	210.6	136.4	115.6	112.2	119.1	120.8
52.5°	10663.1	4135.5	586.8	457.4	298.6	160.5	112.2	101.8	101.8	101.8	101.8
55°	10628.6	3755.7	528.2	395.3	220.9	127.7	96.7	89.8	88.0	88.0	88.0
57.5°	10746.0	3531.4	422.9	307.2	158.8	103.6	84.6	79.4	75.9	74.2	74.2
60°	10982.4	3384.7	302.0	220.9	119.1	86.3	72.5	67.3	62.1	58.7	58.7
62.5°	11296.6	3256.9	224.4	164.0	91.5	69.0	60.4	55.2	48.3	44.9	44.9
65°	11538.2	3029.1	170.9	122.5	69.0	55.2	46.6	44.9	34.5	31.1	29.3
67.5°	11168.8	2528.6	138.1	89.8	51.8	43.1	36.2	34.5	20.7	17.3	17.3
70°	9579.2	1760.5	110.5	65.6	38.0	34.5	29.3	22.4	15.5	13.8	13.8
71°	8686.9	1470.5	100.1	55.2	32.8	32.8	27.6	19.0	13.8	12.1	12.1
72.5°	7216.3	1044.2	84.6	43.1	29.3	34.5	29.3	17.3	13.8	12.1	10.4
75°	4189.0	436.7	58.7	29.3	22.4	41.4	38.0	15.5	10.4	8.6	8.6
77.5°	1260.0	160.5	32.8	19.0	17.3	36.2	43.1	13.8	5.2	1.7	1.7
80°	229.6	69.0	20.7	12.1	12.1	22.4	32.8	6.9	0.0	0.0	0.0
82.5°	81.1	34.5	12.1	6.9	5.2	10.4	15.5	0.0	0.0	0.0	0.0
85°	46.6	24.2	6.9	3.5	0.0	1.7	3.5	0.0	0.0	0.0	0.0
87.5°	31.1	6.9	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)