

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: P321573

Luminaire Tested: **GAN-SA9C-730-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321573
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-SA9C-730-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 1050mA 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: 44290 lumens
Efficiency: N/A
Efficacy: 88.4 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

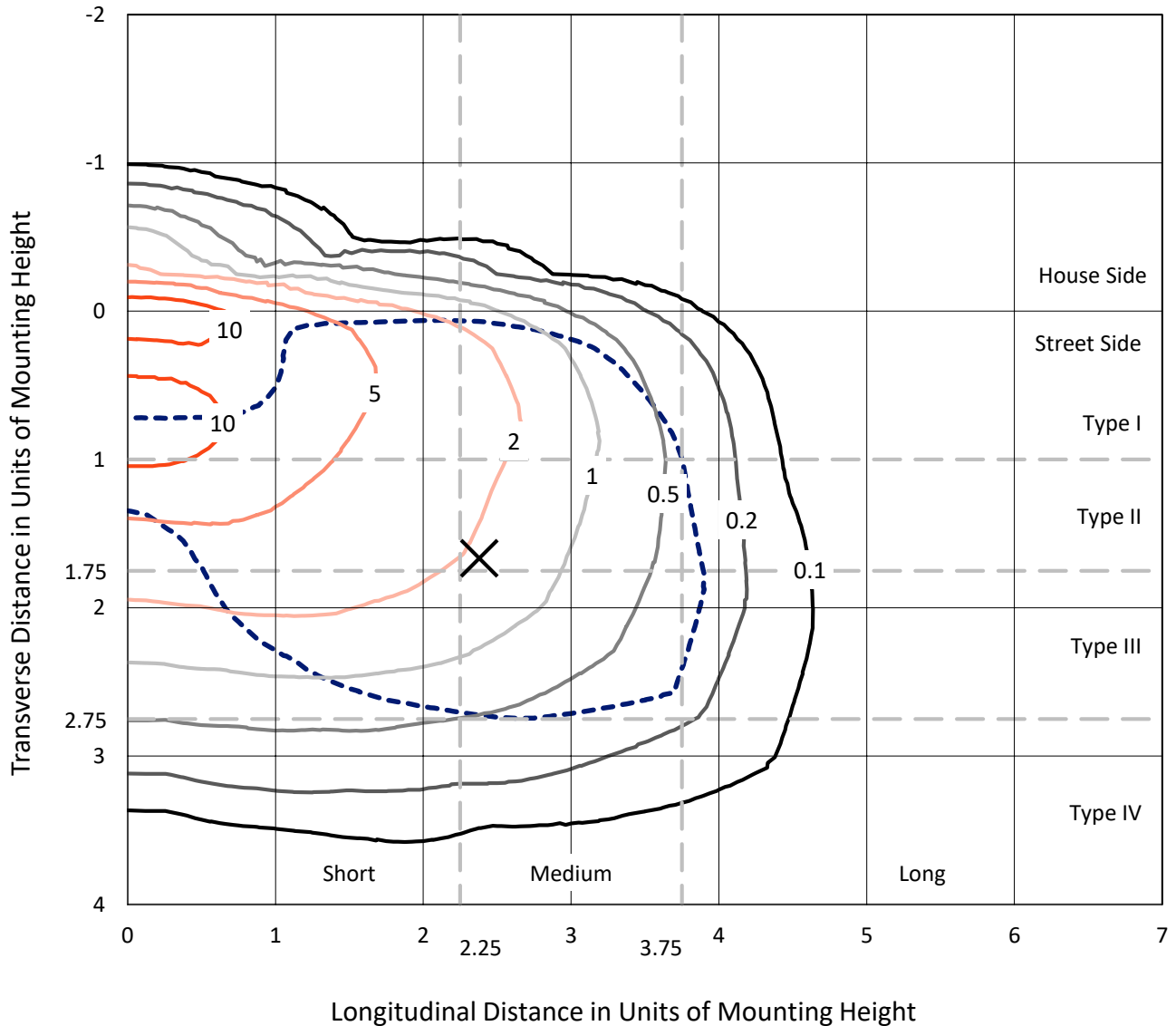
Input Watts (W): 501
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

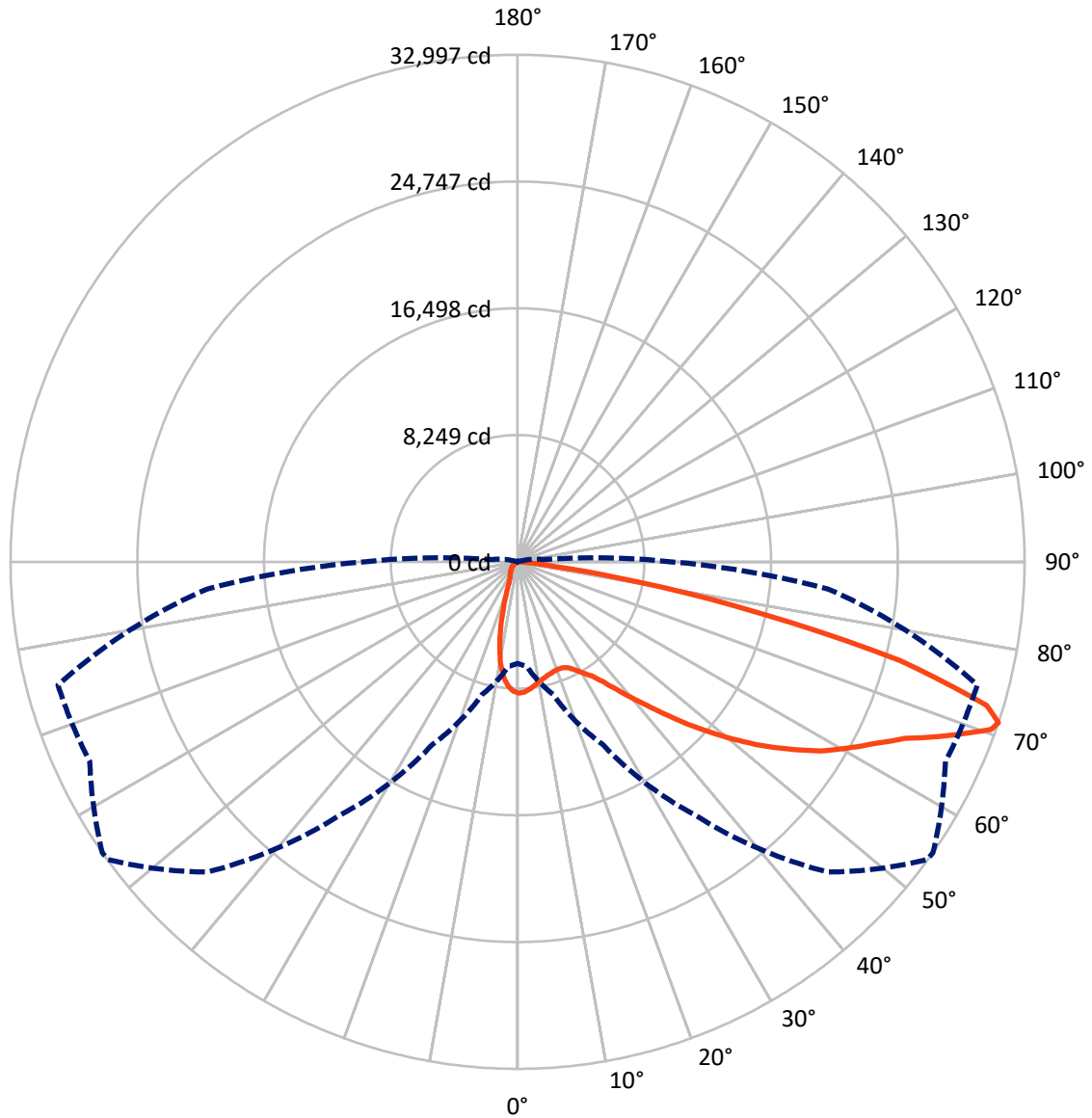
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14 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	3506.6	0.0	3506.6
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	40783.4	0.0	40783.4
	% Fixture	92.1	0.0	92.1
Total	Lumens	44290.0	0.0	44290.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	728.3	1.6
10°-20°	1644.1	3.7
20°-30°	2642.2	6.0
30°-40°	4489.2	10.1
40°-50°	6967.8	15.7
50°-60°	9368.0	21.2
60°-70°	11460.2	25.9
70°-80°	6700.5	15.1
80°-90°	289.6	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°	44290.0	100.0
0°-180°	44290.0	100.0

Coefficient of Utilization

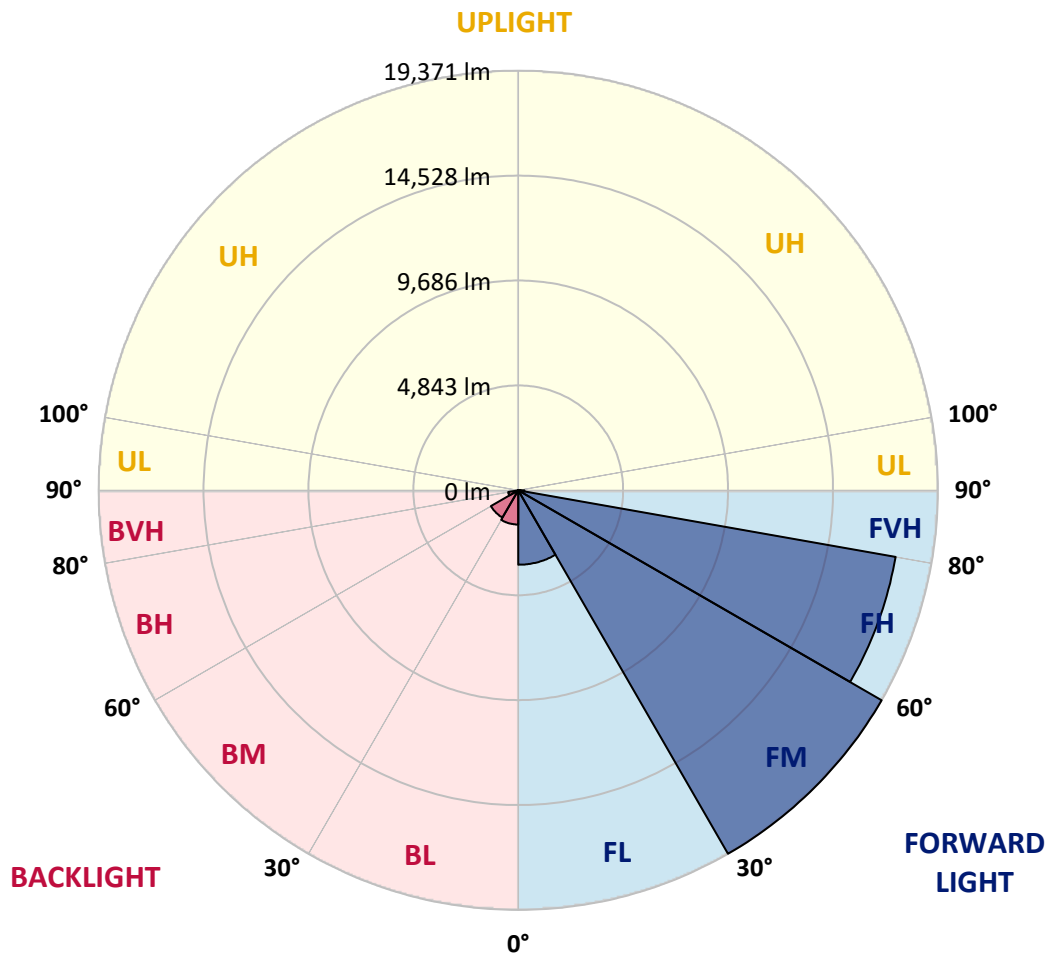


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3436.3	7.8			
FM (30°-60°)	19371.2	43.7			
FH (60°-80°)	17690.9	39.9			G5
FVH (80°-90°)	285.1	0.6			G3/500
BL (0°-30°)	1578.3	3.6	B3/2500		
BM (30°-60°)	1453.9	3.3	B2/2500		
BH (60°-80°)	469.8	1.1	B1/500		G1/500
BVH (80°-90°)	4.6	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°	8541.5	8541.5	8541.5	8541.5	8541.5	8541.5	8541.5	8541.5	8541.5	8541.5	8541.5
2.5°	8290.9	8300.9	8336.6	8352.6	8390.3	8454.0	8485.8	8487.8	8539.5	8559.4	8575.3
5°	7704.2	7763.9	7823.6	7887.2	8002.5	8155.7	8306.8	8320.7	8487.8	8611.1	8676.7
7.5°	7199.1	7252.8	7324.4	7425.8	7588.9	7829.5	8082.1	8111.9	8428.1	8708.5	8855.7
10°	6680.1	6723.8	6827.2	6976.4	7201.1	7523.3	7863.3	7913.1	8374.4	8839.8	9098.3
12.5°	6125.2	6151.1	6276.4	6491.1	6821.3	7230.9	7678.4	7744.0	8340.6	8990.9	9384.7
15°	5703.6	5715.5	5834.9	6057.6	6435.4	6968.4	7535.2	7614.7	8348.6	9171.9	9696.9
17.5°	5596.2	5602.2	5665.8	5818.9	6153.1	6733.8	7421.8	7519.3	8372.4	9348.9	10011.1
20°	6031.7	5990.0	5924.4	5900.5	6043.7	6592.6	7354.2	7463.6	8404.3	9506.0	10293.5
22.5°	7227.0	7103.7	6831.2	6467.3	6246.5	6602.5	7372.1	7481.5	8505.7	9698.9	10619.7
25°	9000.9	8829.8	8366.5	7650.5	6962.5	6888.9	7521.3	7632.6	8702.6	9929.6	10931.9
27.5°	11019.4	10850.4	10283.6	9261.4	8088.1	7455.7	7863.3	7966.7	8994.9	10134.4	11170.6
30°	12952.4	12904.7	12236.5	11075.1	9504.0	8374.4	8304.8	8392.3	9211.7	10257.7	11359.5
32.5°	14591.1	14515.6	13978.6	12849.0	11124.8	9478.2	8823.9	8849.7	9374.8	10416.8	11606.1
35°	16110.5	16017.0	15545.7	14477.8	12787.4	10826.5	9623.3	9585.6	9730.7	10737.0	11964.0
37.5°	17437.0	17522.5	16999.4	15983.2	14278.9	12228.5	10701.2	10587.9	10287.6	11258.1	12483.1
40°	18546.7	18546.7	18274.2	17427.0	15889.7	13678.3	11920.3	11771.1	11124.8	12061.5	13141.4
42.5°	18946.4	19031.9	19133.3	18654.0	17331.6	15185.7	13278.6	13123.5	12304.1	13201.0	13972.6
45°	18970.3	19105.5	19624.5	19622.5	18634.2	16683.2	14809.9	14736.3	13815.5	14664.7	15002.8
47.5°	18634.2	18803.2	19658.3	20143.6	19666.3	18077.3	16484.4	16392.9	15591.4	16458.5	16080.7
50°	18115.1	18302.0	19296.4	20348.4	20368.3	19290.4	18248.4	18111.1	17546.3	18508.9	17194.3
52.5°	17186.4	17548.3	18972.2	20396.2	20829.7	20338.5	19926.8	19867.2	19733.9	20483.7	18081.3
55°	15199.7	15601.4	18158.9	20412.1	21257.3	21267.2	21499.9	21515.8	21784.3	22329.2	18741.6
57.5°	14261.0	14487.7	16738.9	20487.6	21891.7	22321.2	23102.8	23226.1	23641.7	24081.2	19495.3
60°	13670.4	13938.8	16038.9	20384.2	22888.0	23703.4	24588.3	24630.1	25075.6	25889.0	20515.5
62.5°	13199.0	13463.5	15597.4	19986.5	24007.6	25365.9	26040.1	26044.1	26378.2	28042.7	21674.9
65°	12035.6	12258.4	14704.5	19539.0	24747.4	27010.6	27726.5	27700.7	27973.1	30313.8	23021.2
67.5°	10353.2	10524.2	12880.8	17842.7	24469.0	28506.1	30272.1	30186.5	29856.4	32276.7	23550.2
70°	8004.5	8066.2	10152.3	14869.5	21859.8	29080.8	32732.1	32688.3	31011.9	31924.7	21611.3
71°	6616.4	6819.3	8947.2	13123.5	20111.8	28549.8	32970.7	32996.6	30721.5	30966.1	20276.8
72.5°	3842.2	4015.2	6485.2	10078.8	17075.0	26334.4	31733.8	31920.7	29365.2	28166.0	17319.6
75°	823.3	881.0	2404.3	4878.3	9392.7	18457.2	25047.7	25713.9	23934.1	19161.2	10438.7
77.5°	572.7	618.5	1030.1	2213.4	3104.4	9120.2	15559.6	16311.4	14298.8	7201.1	3341.0
80°	453.4	505.1	803.4	1093.8	839.2	2941.3	7288.6	7748.0	4768.9	1606.9	562.8
82.5°	252.6	300.3	626.4	590.6	322.2	558.8	2040.4	2306.9	954.6	324.2	133.2
85°	73.6	89.5	403.7	429.6	137.2	107.4	348.0	431.5	181.0	85.5	59.7
87.5°	0.0	0.0	194.9	165.1	39.8	15.9	31.8	35.8	35.8	35.8	39.8
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°	8541.5	8541.5	8541.5	8541.5	8541.5	8541.5	8541.5	8541.5	8541.5	8541.5	8541.5
2.5°	8575.3	8589.2	8539.5	8473.9	8404.3	8318.8	8229.3	8159.7	8157.7	8123.9	8090.0
5°	8680.7	8672.7	8535.5	8326.7	8080.1	7823.6	7579.0	7302.5	7211.0	7097.7	7059.9
7.5°	8875.6	8819.9	8529.6	8072.2	7531.2	6994.3	6439.4	5880.6	5642.0	5427.2	5389.4
10°	9120.2	9014.8	8491.8	7690.3	6698.0	5707.6	4870.3	4110.7	3776.5	3520.0	3508.1
12.5°	9374.8	9213.7	8386.4	7113.6	5606.2	4214.1	3249.5	2501.8	2223.4	2044.4	2060.3
15°	9641.2	9400.6	8159.7	6336.0	4363.2	2859.8	1996.7	1557.2	1445.8	1400.0	1412.0
17.5°	9913.7	9529.9	7843.5	5399.3	3136.2	1845.5	1382.1	1258.8	1258.8	1268.8	1272.8
20°	10150.3	9599.5	7378.1	4349.3	2125.9	1344.4	1209.1	1191.2	1201.2	1217.1	1219.1
22.5°	10385.0	9603.5	6771.5	3285.3	1487.6	1177.3	1151.5	1143.5	1149.5	1167.4	1169.4
25°	10575.9	9555.7	6011.9	2336.7	1187.3	1109.7	1097.8	1093.8	1097.8	1119.6	1119.6
27.5°	10653.5	9382.7	5085.1	1642.7	1064.0	1034.1	1030.1	1034.1	1040.1	1056.0	1058.0
30°	10661.4	9080.4	4074.9	1189.2	964.5	932.7	940.7	954.6	948.6	944.6	948.6
32.5°	10681.3	8730.4	3090.4	978.4	881.0	831.3	821.3	821.3	797.5	783.5	775.6
35°	10747.0	8318.8	2241.3	879.0	795.5	737.8	700.0	656.3	610.5	586.7	580.7
37.5°	10850.4	7887.2	1604.9	813.4	719.9	654.3	582.7	505.1	439.5	421.6	421.6
40°	11039.3	7441.7	1187.3	761.7	660.2	578.7	471.3	369.9	310.2	300.3	300.3
42.5°	11337.6	6972.4	946.6	715.9	608.5	501.2	360.0	268.5	224.7	218.8	216.8
45°	11647.8	6455.3	827.3	672.2	552.9	411.7	266.5	198.9	173.0	167.1	167.1
47.5°	11958.1	5904.5	769.6	630.4	499.2	320.2	198.9	157.1	145.2	145.2	147.2
50°	12220.6	5329.7	727.9	584.7	429.6	242.6	157.1	133.2	129.3	137.2	139.2
52.5°	12286.2	4764.9	676.2	527.0	344.0	184.9	129.3	117.3	117.3	117.3	117.3
55°	12246.4	4327.4	608.5	455.4	254.6	147.2	111.4	103.4	101.4	101.4	101.4
57.5°	12381.7	4068.9	487.2	354.0	183.0	119.3	97.4	91.5	87.5	85.5	85.5
60°	12654.1	3899.8	348.0	254.6	137.2	99.4	83.5	77.6	71.6	67.6	67.6
62.5°	13016.1	3752.7	258.5	188.9	105.4	79.5	69.6	63.6	55.7	51.7	51.7
65°	13294.5	3490.2	196.9	141.2	79.5	63.6	53.7	51.7	39.8	35.8	33.8
67.5°	12868.9	2913.5	159.1	103.4	59.7	49.7	41.8	39.8	23.9	19.9	19.9
70°	11037.3	2028.5	127.3	75.6	43.8	39.8	33.8	25.9	17.9	15.9	15.9
71°	10009.1	1694.4	115.3	63.6	37.8	37.8	31.8	21.9	15.9	13.9	13.9
72.5°	8314.8	1203.2	97.4	49.7	33.8	39.8	33.8	19.9	15.9	13.9	11.9
75°	4826.6	503.1	67.6	33.8	25.9	47.7	43.8	17.9	11.9	9.9	9.9
77.5°	1451.8	184.9	37.8	21.9	19.9	41.8	49.7	15.9	6.0	2.0	2.0
80°	264.5	79.5	23.9	13.9	13.9	25.9	37.8	8.0	0.0	0.0	0.0
82.5°	93.5	39.8	13.9	8.0	6.0	11.9	17.9	0.0	0.0	0.0	0.0
85°	53.7	27.8	8.0	4.0	0.0	2.0	4.0	0.0	0.0	0.0	0.0
87.5°	35.8	8.0	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)