

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: P322863

Luminaire Tested: **GAN-SA9D-730-U-T4W-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P322863  
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-SA9D-730-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3000K, 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: 45786 lumens  
Efficiency: N/A  
Efficacy: 79.6 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

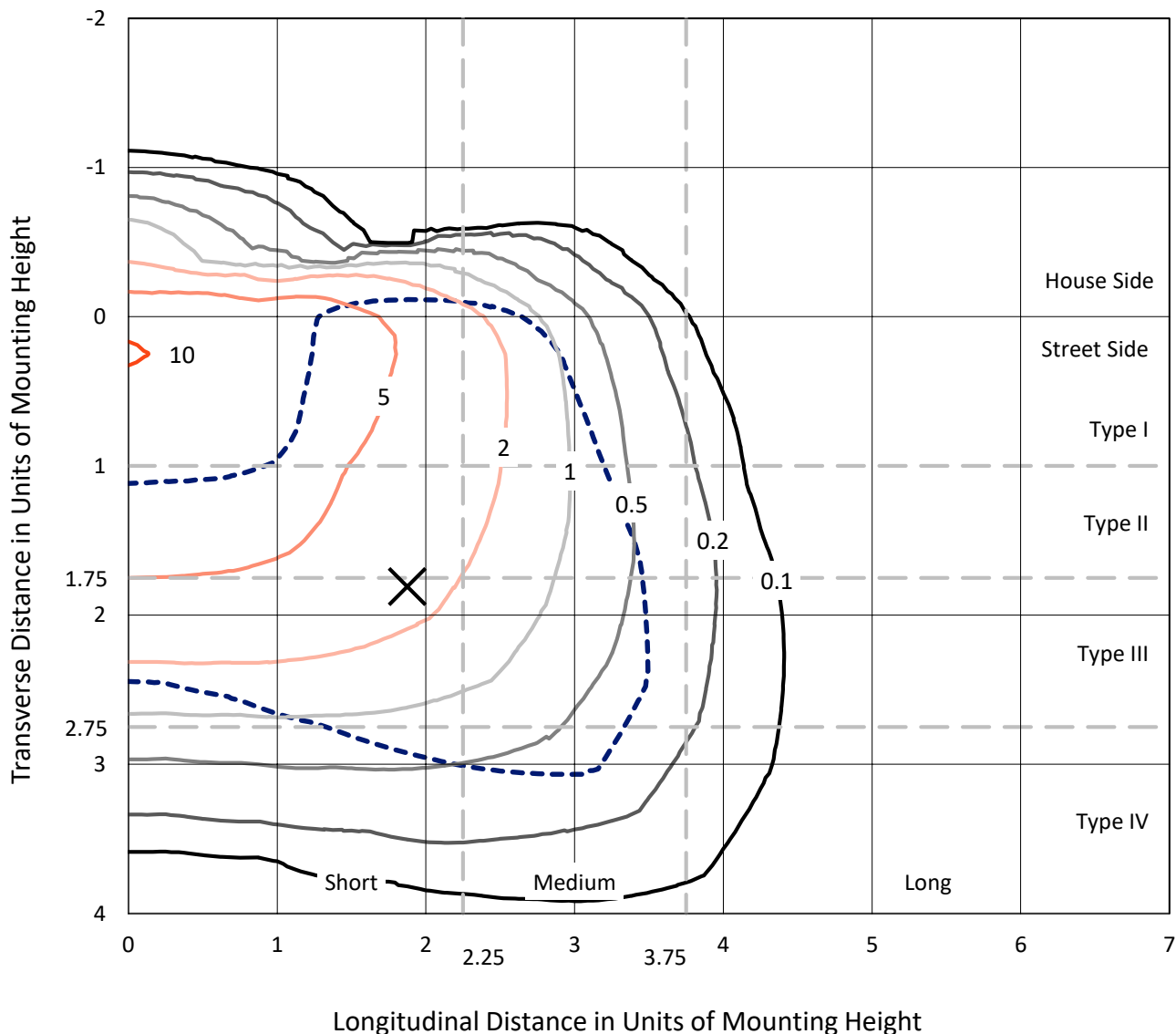
Input Watts (W): 575  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

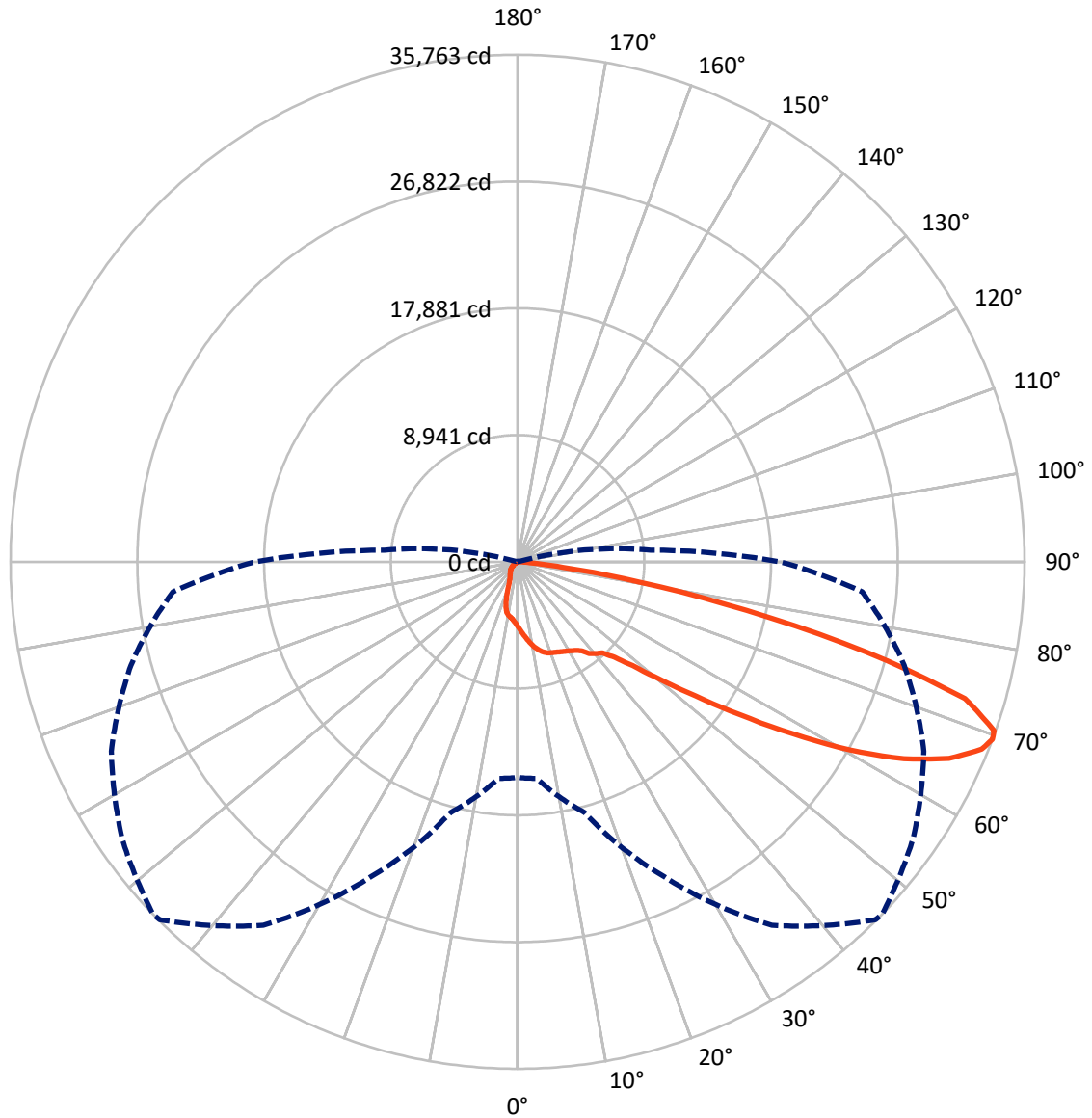
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.7 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4698.9	0.0	4698.9
	% Fixture	10.3	0.0	10.3
<b>Street Side</b>	Lumens	41087.1	0.0	41087.1
	% Fixture	89.7	0.0	89.7
<b>Total</b>	Lumens	45786.0	0.0	45786.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	456.6	1.0
10°-20°	1385.3	3.0
20°-30°	2178.6	4.8
30°-40°	3124.1	6.8
40°-50°	5399.6	11.8
50°-60°	10667.5	23.3
60°-70°	14908.8	32.6
70°-80°	7202.5	15.7
80°-90°	462.9	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°	45786.0	100.0
0°-180°	45786.0	100.0

**Coefficient of Utilization**

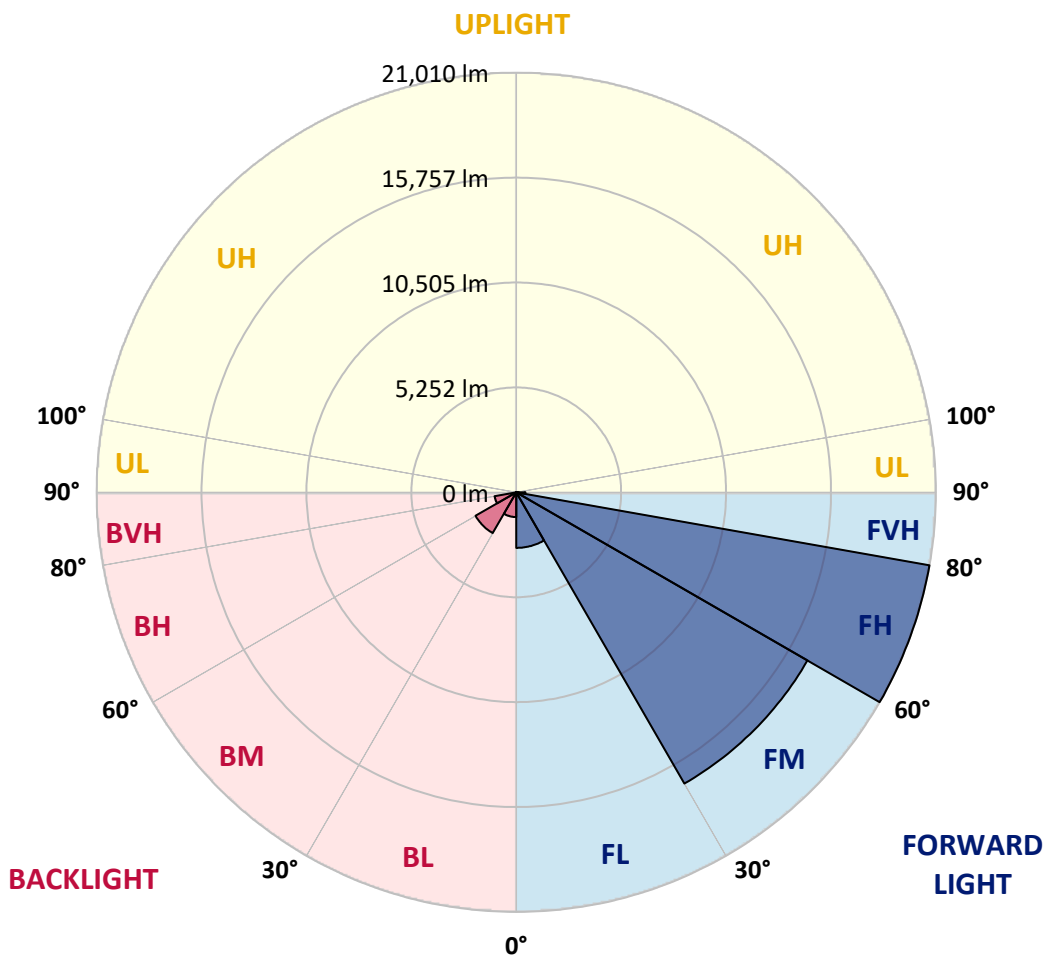


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2782.0	6.1			
FM (30°-60°)	16836.5	36.8			
FH (60°-80°)	21009.5	45.9			G5
FVH (80°-90°)	459.0	1.0			G3/500
BL (0°-30°)	1238.5	2.7	B3/2500		
BM (30°-60°)	2354.7	5.1	B2/2500		
BH (60°-80°)	1101.8	2.4	B3/2500		G3/2500
BVH (80°-90°)	3.9	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	4587.6	4587.6	4587.6	4587.6	4587.6	4587.6	4587.6	4587.6	4587.6	4587.6	4587.6
2.5°	5096.4	5089.9	5059.9	5047.0	4974.0	4931.1	4913.9	4860.2	4782.9	4705.7	4619.8
5°	5676.0	5673.8	5618.0	5564.4	5427.0	5298.2	5274.5	5150.0	4976.1	4813.0	4649.8
7.5°	6268.5	6240.6	6184.8	6081.7	5882.1	5676.0	5656.7	5480.6	5233.8	4997.6	4763.6
10°	6770.8	6753.6	6680.7	6523.9	6290.0	6056.0	6032.3	5815.5	5536.4	5246.6	4948.2
12.5°	7161.5	7148.6	7052.0	6856.7	6607.7	6365.1	6332.9	6139.7	5841.3	5517.1	5165.1
15°	7399.8	7393.4	7275.3	7067.1	6822.3	6612.0	6584.1	6414.5	6137.5	5798.3	5401.2
17.5°	7455.6	7457.8	7335.4	7125.0	6923.2	6773.0	6751.5	6622.7	6390.8	6053.8	5637.3
20°	7331.1	7356.9	7247.4	7064.9	6940.4	6861.0	6843.8	6766.5	6571.2	6253.5	5826.3
22.5°	7155.1	7168.0	7092.8	6970.5	6918.9	6934.0	6925.4	6882.5	6717.2	6425.2	6013.0
25°	7047.8	7047.8	7002.7	6899.6	6934.0	7026.3	7028.4	7019.8	6888.9	6635.6	6240.6
27.5°	7043.5	7030.6	6979.1	6901.8	6996.2	7137.9	7146.5	7204.5	7122.9	6891.0	6523.9
30°	7215.2	7200.2	7090.7	6989.8	7110.0	7262.4	7283.9	7410.6	7369.8	7168.0	6839.5
32.5°	7616.6	7563.0	7320.4	7155.1	7245.3	7427.7	7455.6	7657.4	7721.8	7509.3	7144.4
35°	8166.2	7996.6	7646.7	7468.5	7477.1	7668.2	7693.9	7990.2	8181.2	7822.7	7380.5
37.5°	8924.0	8840.3	8271.4	7794.8	7833.5	8123.3	8198.4	8520.4	8466.7	7994.5	7648.8
40°	10585.6	10454.6	9849.2	8709.3	8174.8	8492.5	8516.1	8687.9	8692.2	8383.0	8207.0
42.5°	12848.2	12794.6	12157.0	10368.8	8846.7	8739.4	8782.3	9072.1	9396.3	9203.1	9194.5
45°	15353.5	15325.6	14649.4	12571.3	10205.6	9548.7	9602.4	9990.9	10611.3	10654.3	10926.9
47.5°	17369.3	17356.4	16967.8	15029.3	12285.8	10920.5	10937.6	11349.8	12440.4	12979.2	13415.0
50°	19206.9	19269.1	18962.2	17689.1	15119.5	13069.4	13028.6	13303.4	15055.1	15937.4	16478.4
52.5°	21761.5	21849.5	20988.7	20170.8	18092.7	15735.6	15703.4	15991.1	18197.9	18859.1	18955.7
55°	24017.7	23867.5	23187.0	22950.8	21718.6	19028.7	19020.1	19273.4	21237.7	21518.9	21697.1
57.5°	25013.8	24955.9	25284.3	25825.3	25516.2	22920.8	22901.4	22708.2	23957.6	23987.7	24535.1
60°	25642.8	25713.7	26720.5	28388.5	29159.2	27109.0	26984.5	25806.0	26555.2	26488.6	27074.7
62.5°	25170.5	25310.1	27121.9	29902.0	31885.5	30764.9	30588.9	28644.0	28774.9	28545.2	29090.5
65°	22663.1	22880.0	25848.9	29616.4	33238.0	33622.3	33444.1	31149.2	30537.4	30159.6	29856.9
67.5°	18401.9	18530.7	21630.6	27132.7	32628.3	35326.8	35290.3	33345.3	31868.4	29886.9	27538.4
69°	15207.5	15334.2	18318.1	24517.9	31286.6	35691.7	35762.6	34049.5	31615.1	28229.6	24399.9
70°	12880.4	13015.7	15795.7	22276.7	29730.2	35522.1	35648.8	33982.9	30889.5	26310.5	21645.6
72.5°	6755.8	6871.7	9724.7	15347.1	24236.7	32617.6	33001.9	31110.6	26183.8	19108.1	12798.9
75°	2123.1	2189.7	3797.6	8022.4	16594.3	25361.6	25449.6	24404.2	18592.9	10510.4	5330.4
77.5°	809.3	790.0	1264.4	2956.1	8389.5	15969.6	16508.4	15250.4	9756.9	3716.0	1230.1
80°	435.8	437.9	656.9	1223.6	3589.4	8207.0	8662.1	7391.2	3467.0	1159.2	283.4
82.5°	188.9	197.5	369.2	648.3	1648.7	3026.9	3254.5	2709.2	1324.5	779.3	105.2
85°	40.8	45.1	178.2	352.1	671.9	850.1	890.9	878.0	843.7	605.4	40.8
87.5°	0.0	0.0	79.4	126.7	169.6	193.2	169.6	221.1	465.8	407.9	21.5
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°	4587.6	4587.6	4587.6	4587.6	4587.6	4587.6	4587.6	4587.6	4587.6	4587.6	4587.6
2.5°	4591.9	4553.2	4486.7	4413.7	4362.2	4308.5	4265.6	4246.3	4224.8	4209.8	4229.1
5°	4583.3	4508.2	4379.4	4254.8	4164.7	4091.7	4031.6	4008.0	3984.4	3967.2	3965.0
7.5°	4658.4	4553.2	4355.7	4173.3	4033.7	3935.0	3853.4	3819.1	3791.1	3778.3	3767.5
10°	4802.3	4667.0	4403.0	4164.7	3984.4	3816.9	3640.9	3505.6	3417.6	3376.8	3361.8
12.5°	4989.0	4819.4	4493.1	4209.8	3947.9	3625.8	3252.3	2930.3	2722.1	2653.4	2612.6
15°	5208.0	4997.6	4611.2	4267.7	3814.8	3226.6	2593.3	2172.5	1979.3	1940.7	1897.7
17.5°	5418.4	5186.5	4752.9	4278.5	3522.8	2578.2	1899.9	1614.3	1539.2	1565.0	1571.4
20°	5603.0	5373.3	4892.4	4184.0	2992.6	1934.2	1470.5	1399.7	1427.6	1477.0	1485.5
22.5°	5789.8	5553.6	5021.2	3935.0	2314.2	1468.4	1324.5	1341.7	1369.6	1419.0	1427.6
25°	6017.3	5772.6	5141.4	3477.7	1736.7	1249.4	1258.0	1283.8	1311.7	1356.7	1361.0
27.5°	6279.2	6049.5	5220.9	2883.1	1288.0	1148.5	1176.4	1215.1	1243.0	1285.9	1294.5
30°	6627.0	6414.5	5246.6	2267.0	1079.8	1058.3	1071.2	1118.5	1159.2	1197.9	1204.3
32.5°	6953.3	6775.1	5160.8	1711.0	1000.4	974.6	974.6	1002.5	1049.8	1086.3	1094.8
35°	7253.8	7137.9	4886.0	1251.6	940.3	897.3	875.9	875.9	905.9	936.0	944.6
37.5°	7651.0	7646.7	4441.6	998.2	882.3	832.9	787.9	753.5	742.8	749.2	753.5
40°	8331.5	8337.9	3862.0	895.2	832.9	766.4	697.7	635.4	577.5	558.2	556.0
42.5°	9394.1	9297.5	3254.5	845.8	790.0	697.7	594.6	510.9	420.8	392.9	390.7
45°	11081.5	10508.3	2610.4	800.7	744.9	620.4	491.6	377.8	304.8	283.4	283.4
47.5°	13539.5	12099.0	2022.2	751.4	684.8	532.4	371.4	272.6	223.3	212.5	214.7
50°	16081.2	13657.6	1549.9	689.1	611.8	440.1	274.8	197.5	169.6	169.6	171.7
52.5°	18335.3	14799.6	1208.6	622.6	521.7	345.6	208.2	154.6	141.7	139.5	141.7
55°	20445.6	15536.0	925.2	545.3	414.3	257.6	158.9	126.7	118.1	113.8	111.6
57.5°	22480.7	15900.9	693.4	440.1	300.5	186.8	126.7	107.3	98.8	92.3	90.2
60°	23835.3	15604.7	476.6	324.2	208.2	135.2	105.2	92.3	81.6	75.1	73.0
62.5°	24599.5	14795.3	307.0	234.0	148.1	100.9	83.7	77.3	62.3	55.8	55.8
65°	24290.4	13460.1	214.7	167.4	107.3	75.1	62.3	62.3	45.1	36.5	34.3
67.5°	21525.4	11371.3	163.2	124.5	77.3	55.8	47.2	53.7	27.9	17.2	17.2
69°	18519.9	9424.2	139.5	103.0	64.4	45.1	40.8	49.4	19.3	12.9	10.7
70°	16096.3	8129.7	126.7	90.2	53.7	38.6	36.5	47.2	19.3	10.7	8.6
72.5°	9630.3	4533.9	96.6	64.4	34.3	30.1	30.1	53.7	19.3	10.7	8.6
75°	3892.0	1597.2	70.8	45.1	25.8	25.8	36.5	68.7	17.2	8.6	6.4
77.5°	882.3	349.9	40.8	27.9	17.2	25.8	42.9	53.7	10.7	4.3	0.0
80°	214.7	85.9	25.8	17.2	10.7	19.3	32.2	30.1	2.1	0.0	0.0
82.5°	70.8	30.1	10.7	8.6	2.1	6.4	15.0	8.6	0.0	0.0	0.0
85°	30.1	17.2	4.3	2.1	0.0	0.0	2.1	0.0	0.0	0.0	0.0
87.5°	19.3	6.4	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)