

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: P321254

Luminaire Tested: **GAN-SA0C-730-U-T2R-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P321254  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA0C-730-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 51463 lumens  
Efficiency: N/A  
Efficacy: 92.2 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G5

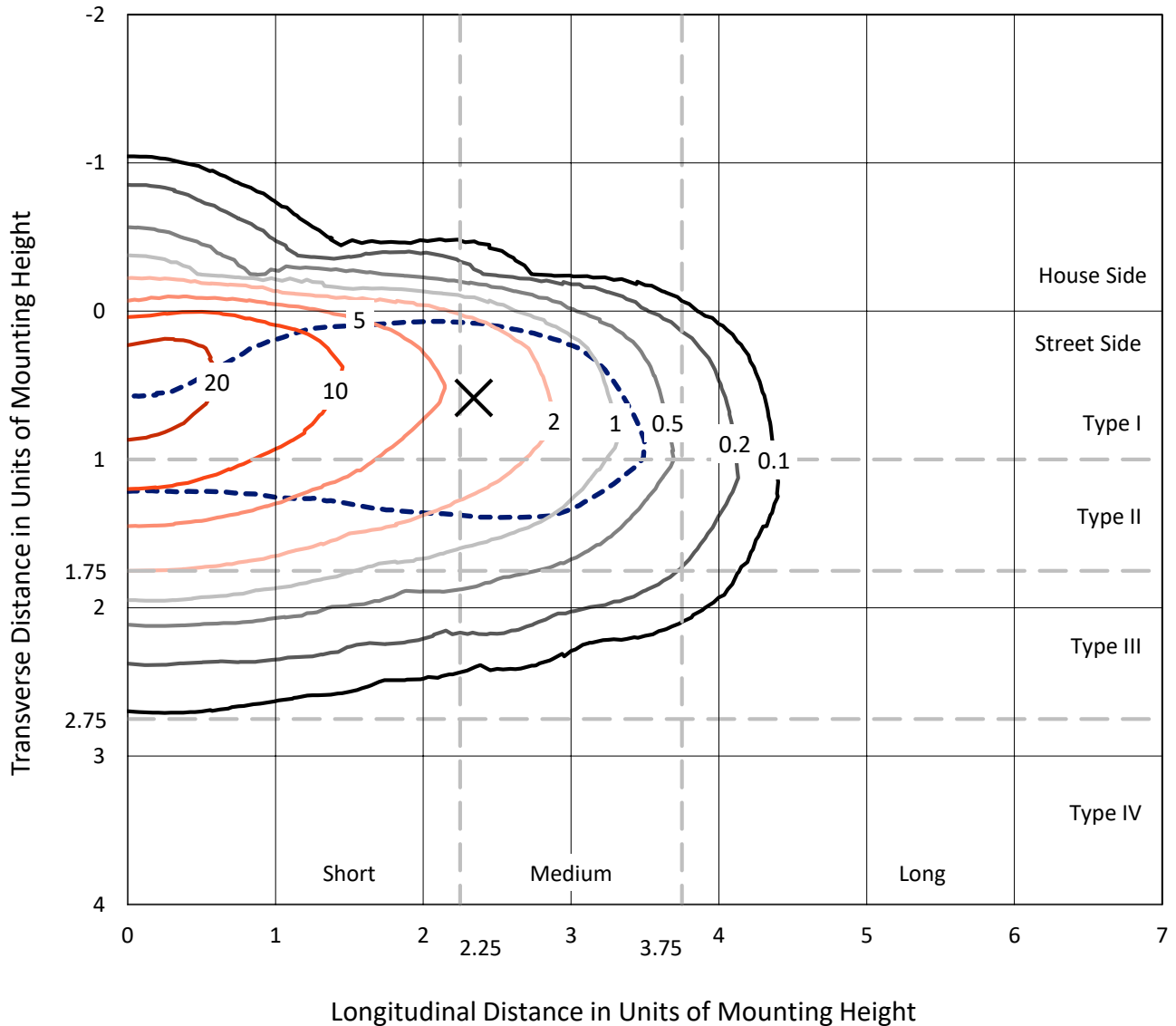
Input Watts (W): 558  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

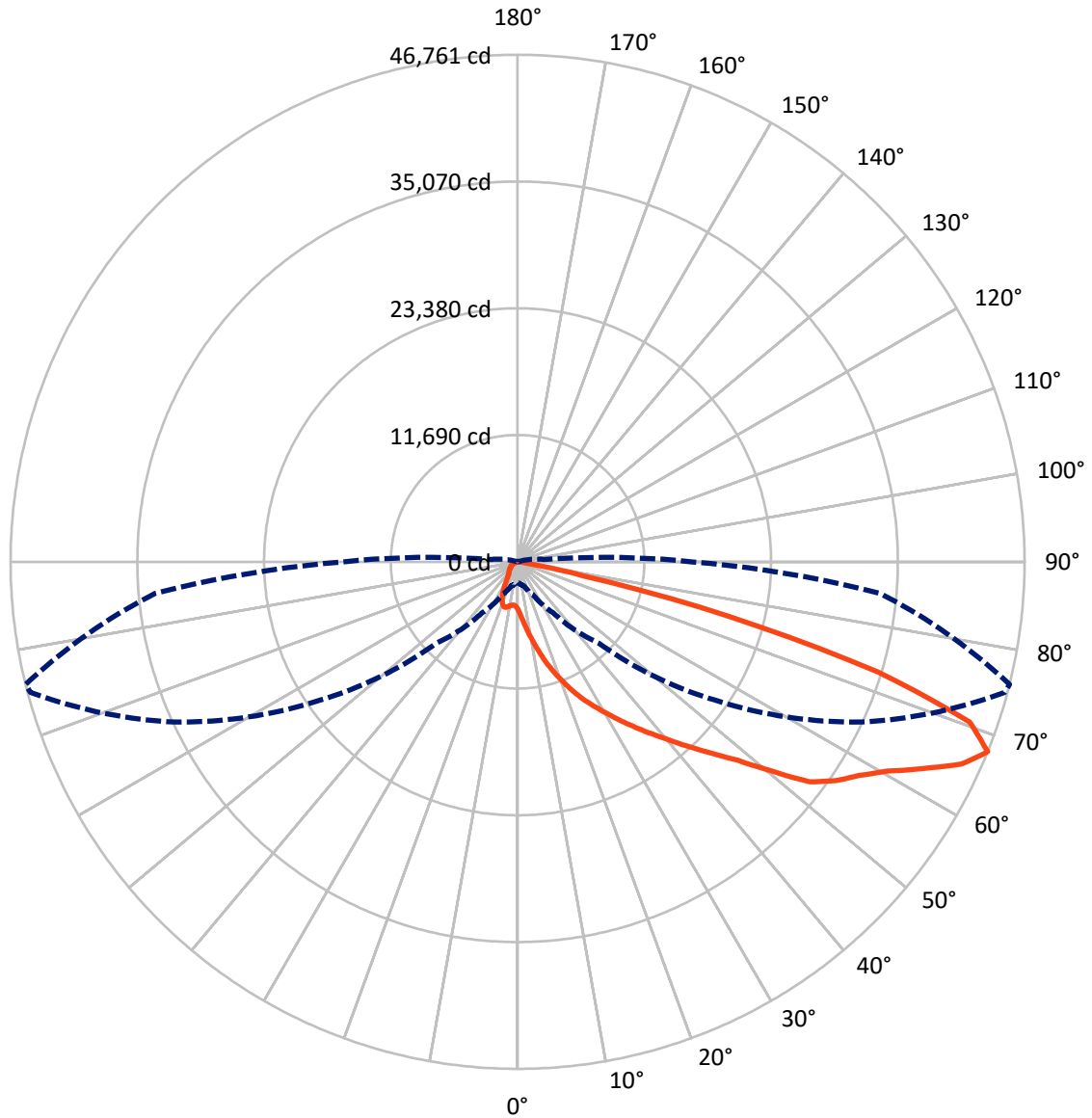
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 24.6 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2555.5	0.0	2555.5
	% Fixture	5.0	0.0	5.0
<b>Street Side</b>	Lumens	48907.5	0.0	48907.5
	% Fixture	95.0	0.0	95.0
<b>Total</b>	Lumens	51463.0	0.0	51463.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	542.8	1.1
10°-20°	2151.9	4.2
20°-30°	4378.5	8.5
30°-40°	7599.6	14.8
40°-50°	10737.3	20.9
50°-60°	12176.6	23.7
60°-70°	10099.3	19.6
70°-80°	3658.3	7.1
80°-90°	118.6	0.2
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°	51463.0	100.0
0°-180°	51463.0	100.0

**Coefficient of Utilization**

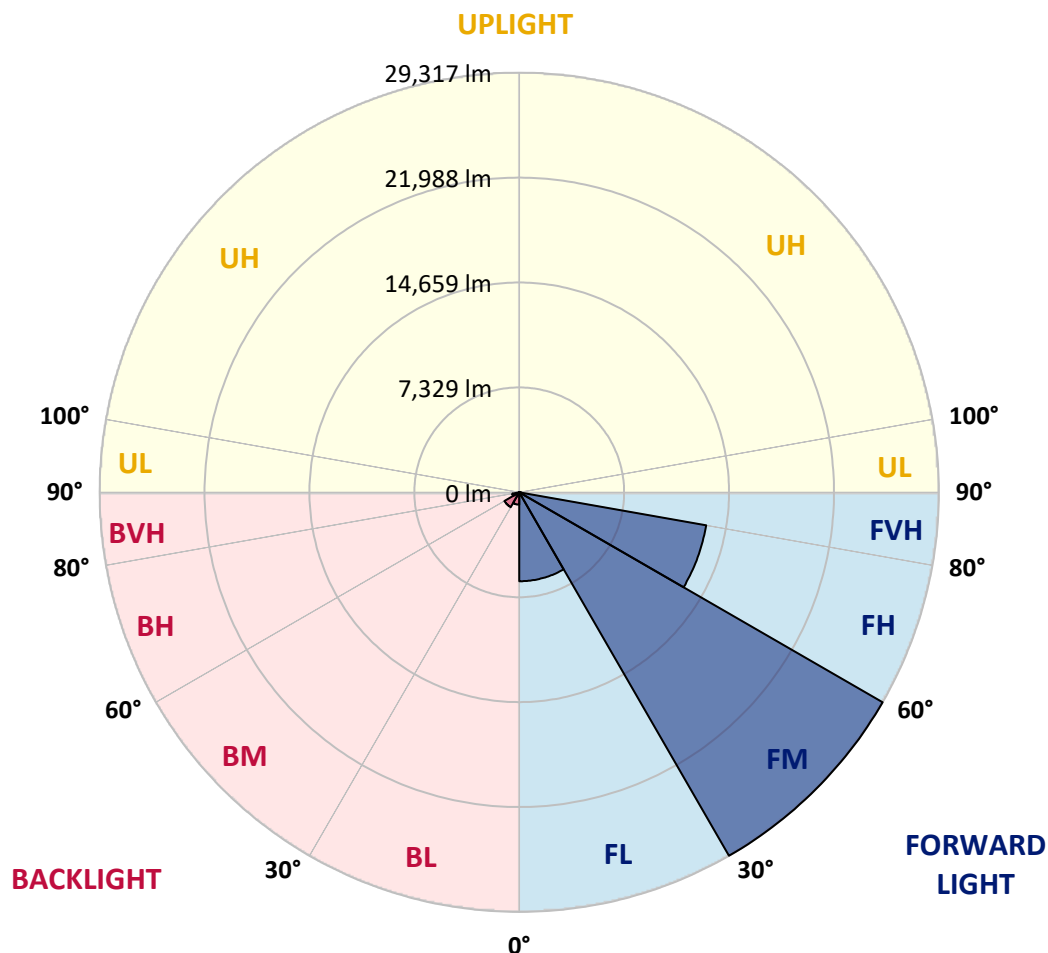


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6211.4	12.1			
FM (30°-60°)	29317.4	57.0			
FH (60°-80°)	13263.7	25.8			G5
FVH (80°-90°)	114.9	0.2			G2/225
BL (0°-30°)	861.8	1.7	B2/1000		
BM (30°-60°)	1196.1	2.3	B2/2500		
BH (60°-80°)	493.9	1.0	B1/500		G1/500
BVH (80°-90°)	3.7	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-G5**  
 Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4365.6	4365.6	4365.6	4365.6	4365.6	4365.6	4365.6	4365.6	4365.6	4365.6	4365.6
2.5°	6516.8	6370.2	6404.0	6309.3	6137.9	5786.2	5486.3	5202.1	4870.7	4859.4	4586.5
5°	8787.5	8663.5	8647.7	8456.0	8144.8	7547.3	6965.5	6302.5	5562.9	5508.8	4929.3
7.5°	10848.5	10749.3	10713.2	10485.4	9905.9	9324.2	8566.5	7592.4	6435.6	6336.4	5391.5
10°	12431.5	12384.1	12393.1	12230.8	11734.7	11193.5	10199.1	8956.6	7425.5	7272.2	5946.3
12.5°	13631.1	13642.4	13723.5	13624.3	13347.0	12945.6	11883.5	10411.0	8521.4	8311.7	6579.9
15°	14512.8	14569.1	14718.0	14842.0	14821.7	14474.4	13500.3	11888.0	9684.9	9452.7	7285.7
17.5°	15083.3	15146.4	15362.9	15638.0	15890.5	15809.3	15060.7	13313.1	10862.0	10593.7	8041.1
20°	15583.9	15658.3	15890.5	16253.6	16724.8	16826.3	16334.7	14695.4	12036.8	11709.9	8821.3
22.5°	16668.5	16666.2	16808.3	17020.2	17469.0	17730.5	17419.4	15978.5	13198.1	12857.6	9617.3
25°	18630.3	18555.9	18506.2	18339.4	18438.6	18601.0	18427.3	17178.1	14366.2	14021.2	10424.6
27.5°	20961.9	21007.0	20605.6	20156.9	19809.6	19642.7	19358.6	18289.8	15489.1	15110.3	11213.8
30°	23422.0	23435.5	22962.0	22389.2	21624.8	20991.2	20499.6	19351.8	16643.7	16231.0	11980.5
32.5°	25640.9	25552.9	25083.9	24303.7	23338.6	22626.0	21604.5	20537.9	17865.8	17466.7	12832.8
35°	27399.7	27296.0	26725.5	26015.2	25014.0	24296.9	23068.0	21721.8	19151.2	18761.1	13687.5
37.5°	28685.0	28563.3	27977.0	27246.4	26382.7	25965.6	24765.9	23009.4	20553.7	20134.3	14587.2
40°	29131.5	29025.5	28658.0	28123.5	27429.0	27334.3	26567.6	24490.8	22080.3	21633.8	15606.4
42.5°	28865.4	28761.7	28630.9	28450.5	28161.9	28252.1	28267.9	26179.8	23776.0	23336.3	16731.6
45°	27810.1	27717.7	27852.9	28116.8	28475.3	28921.8	29819.3	27995.0	25670.2	25201.1	18032.7
47.5°	26256.5	26188.8	26563.1	27221.6	28270.1	29501.3	31237.6	29902.7	27796.6	27361.4	19656.3
50°	24046.6	24035.3	24784.0	25985.9	27598.1	29780.9	32703.3	32071.9	30750.5	30292.8	21913.5
52.5°	20605.6	20628.1	22100.6	24024.1	26418.8	29591.5	33645.9	34859.0	34187.1	33711.3	23868.5
55°	17329.2	17464.5	18508.5	21282.1	24610.4	28888.0	33970.6	36160.1	36083.5	35632.5	24955.4
57.5°	14120.4	14366.2	15371.9	17962.8	21969.8	27266.7	33792.4	36723.9	37495.0	37150.0	26389.5
60°	10643.3	10756.0	11915.1	14336.9	18580.7	24308.2	32500.4	37030.5	39425.3	39186.2	28470.8
62.5°	6771.6	7053.4	8081.7	10417.8	14467.7	20199.7	30322.1	37026.0	41840.3	41971.1	31156.4
65°	3567.3	3896.5	4442.2	6455.9	9942.0	15610.9	27045.7	36678.8	44803.3	44985.9	33255.8
67.5°	1923.5	2018.2	2306.8	3350.8	5765.9	10575.6	22231.4	34965.0	46519.3	46760.6	33548.9
70°	1407.1	1458.9	1567.2	1853.6	2902.1	6142.4	16222.0	31079.8	44307.2	44217.0	29808.0
72.5°	1080.1	1161.3	1242.5	1357.5	1668.7	3278.7	10099.9	24337.5	35352.9	34757.6	22281.0
75°	852.4	865.9	980.9	1084.6	1251.5	1867.1	4485.1	14174.5	21577.5	20168.1	11554.3
77.5°	681.0	690.0	757.7	847.9	1005.7	1226.7	1389.0	5576.5	6888.8	6147.0	2507.5
80°	403.6	426.2	563.7	653.9	834.3	773.4	507.4	1210.9	1075.6	974.1	421.7
82.5°	225.5	243.5	317.9	516.4	581.8	369.8	252.6	327.0	252.6	245.8	119.5
85°	0.0	11.3	205.2	320.2	236.8	81.2	106.0	108.2	74.4	69.9	47.4
87.5°	0.0	0.0	63.1	60.9	9.0	13.5	24.8	36.1	29.3	29.3	24.8
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°	4365.6	4365.6	4365.6	4365.6	4365.6	4365.6	4365.6	4365.6	4365.6	4365.6	4365.6
2.5°	4451.2	4329.5	4099.5	3874.0	3684.6	3529.0	3389.2	3332.8	3287.7	3280.9	3244.9
5°	4649.7	4403.9	3964.2	3603.4	3362.1	3190.7	3044.2	2954.0	2884.1	2857.0	2832.2
7.5°	4949.6	4577.5	3946.1	3531.2	3242.6	2954.0	2683.4	2390.2	2207.6	2137.7	2097.1
10°	5314.9	4807.5	4013.8	3510.9	3005.8	2397.0	1948.3	1576.2	1425.1	1375.5	1362.0
12.5°	5741.1	5093.9	4131.0	3384.7	2500.7	1702.5	1343.9	1217.7	1183.8	1168.1	1168.1
15°	6230.4	5407.3	4214.5	3019.4	1849.0	1287.6	1163.5	1104.9	1068.8	1048.5	1050.8
17.5°	6731.0	5714.0	4173.9	2489.4	1364.2	1145.5	1053.1	989.9	940.3	920.0	915.5
20°	7236.1	5998.1	3948.4	1853.6	1154.5	1039.5	935.8	865.9	816.3	796.0	791.5
22.5°	7759.2	6239.4	3551.5	1359.7	1037.3	922.3	820.8	750.9	703.5	685.5	676.5
25°	8268.8	6435.6	2996.8	1100.4	926.8	811.8	714.8	649.4	606.6	588.5	586.3
27.5°	8744.6	6559.6	2354.2	971.9	829.8	712.6	624.6	566.0	529.9	516.4	514.1
30°	9173.1	6570.9	1740.8	877.2	744.1	626.9	545.7	493.8	462.3	448.7	444.2
32.5°	9606.0	6476.2	1267.3	791.5	665.2	552.5	473.5	432.9	410.4	399.1	399.1
35°	10014.2	6257.4	987.7	717.1	588.5	480.3	417.2	387.8	374.3	363.0	363.0
37.5°	10413.3	5944.0	838.8	651.7	516.4	419.4	367.6	349.5	338.2	327.0	327.0
40°	10819.2	5549.4	762.2	590.8	457.8	372.1	327.0	311.2	299.9	290.9	288.6
42.5°	11317.5	5093.9	712.6	534.4	405.9	329.2	288.6	270.6	261.6	252.6	248.0
45°	11894.8	4701.5	672.0	478.0	363.0	293.1	250.3	232.3	218.7	207.5	205.2
47.5°	12726.8	4417.4	617.9	417.2	322.5	254.8	216.5	196.2	175.9	164.6	162.4
50°	13788.9	4182.9	547.9	363.0	281.9	216.5	180.4	155.6	137.6	126.3	126.3
52.5°	14316.6	3876.2	484.8	315.7	236.8	182.6	146.6	117.3	108.2	97.0	97.0
55°	14528.5	3641.7	421.7	268.3	196.2	151.1	115.0	90.2	83.4	76.7	74.4
57.5°	15123.8	3574.1	367.6	227.7	162.4	119.5	87.9	67.6	63.1	54.1	54.1
60°	16082.2	3607.9	317.9	193.9	130.8	92.5	65.4	51.9	47.4	38.3	38.3
62.5°	17117.2	3565.1	268.3	166.9	101.5	67.6	45.1	38.3	38.3	22.5	20.3
65°	17315.6	3174.9	230.0	137.6	78.9	49.6	29.3	24.8	33.8	4.5	0.0
67.5°	16070.9	2462.4	198.4	106.0	58.6	38.3	22.5	11.3	29.3	0.0	0.0
70°	12850.9	1564.9	160.1	76.7	45.1	31.6	18.0	4.5	22.5	0.0	0.0
72.5°	9087.4	908.7	126.3	54.1	38.3	24.8	13.5	0.0	13.5	0.0	0.0
75°	4595.6	484.8	78.9	40.6	29.3	18.0	9.0	0.0	2.3	0.0	0.0
77.5°	994.4	225.5	49.6	29.3	20.3	11.3	4.5	0.0	0.0	0.0	0.0
80°	216.5	99.2	31.6	18.0	11.3	6.8	0.0	0.0	0.0	0.0	0.0
82.5°	78.9	51.9	15.8	9.0	4.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	42.8	27.1	9.0	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	22.5	9.0	2.3	2.3	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)