

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: P321301

Luminaire Tested: **GAN-SA7D-740-U-T2R-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P321301  
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-SA7D-740-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 4000K, 1200mA 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: 44299 lumens  
Efficiency: N/A  
Efficacy: 98.9 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G4

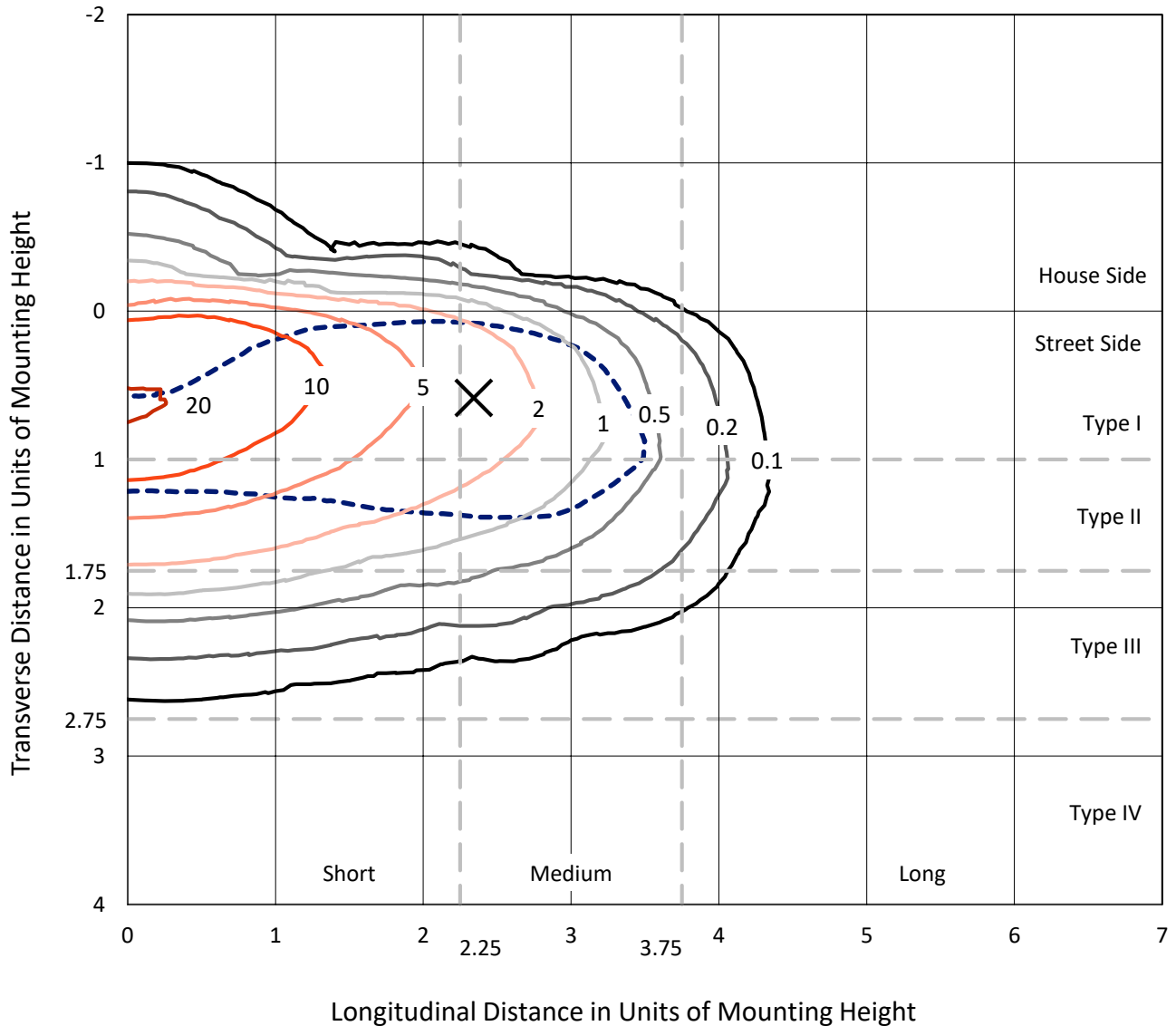
Input Watts (W): 448  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

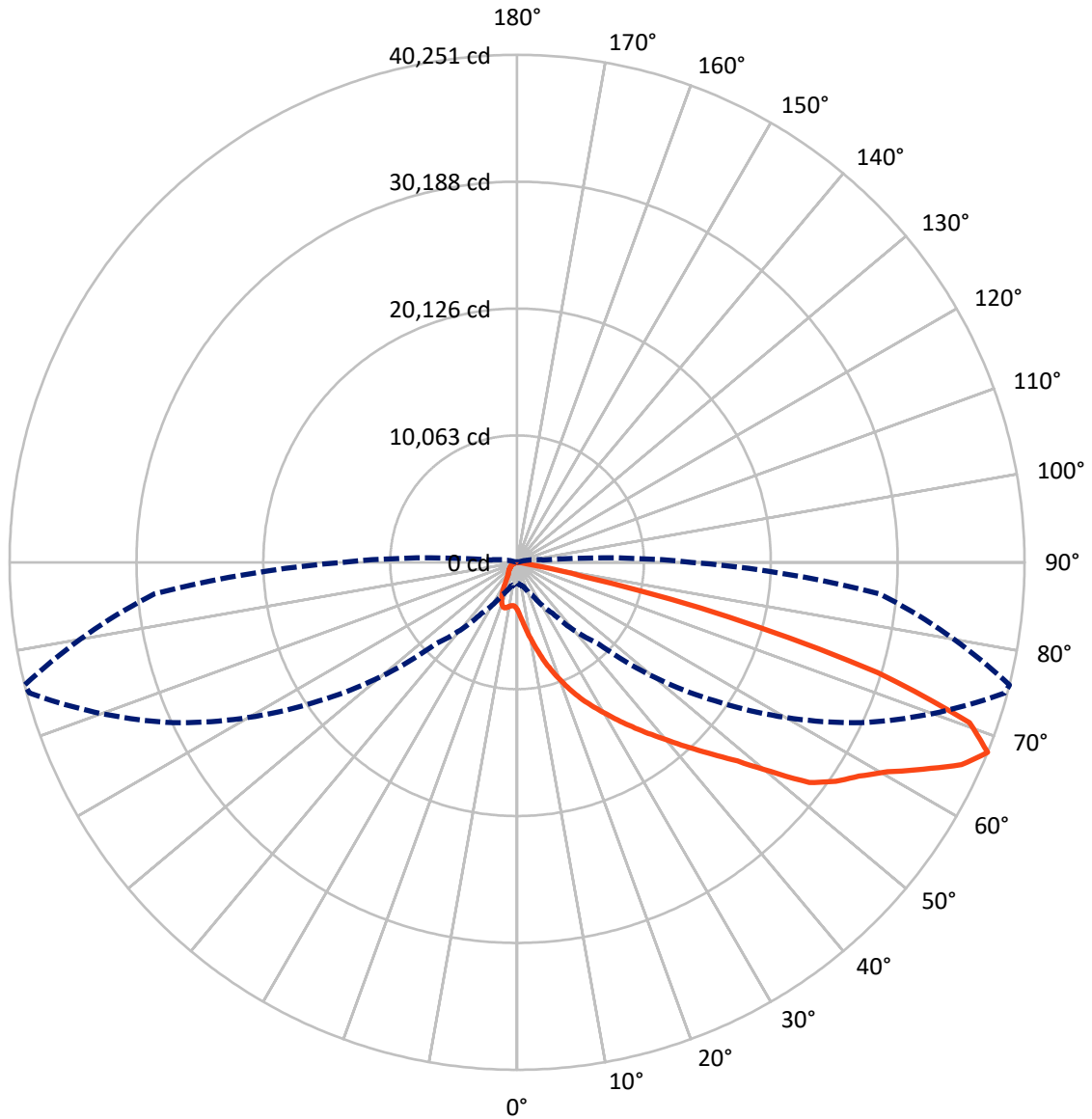
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.2 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	2199.8	0.0	2199.8
	% Fixture	5.0	0.0	5.0
<b>Street Side</b>	Lumens	42099.2	0.0	42099.2
	% Fixture	95.0	0.0	95.0
<b>Total</b>	Lumens	44299.0	0.0	44299.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	467.3	1.1
10°-20°	1852.4	4.2
20°-30°	3769.0	8.5
30°-40°	6541.7	14.8
40°-50°	9242.6	20.9
50°-60°	10481.5	23.7
60°-70°	8693.4	19.6
70°-80°	3149.0	7.1
80°-90°	102.1	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°	44299.0	100.0
0°-180°	44299.0	100.0

**Coefficient of Utilization**

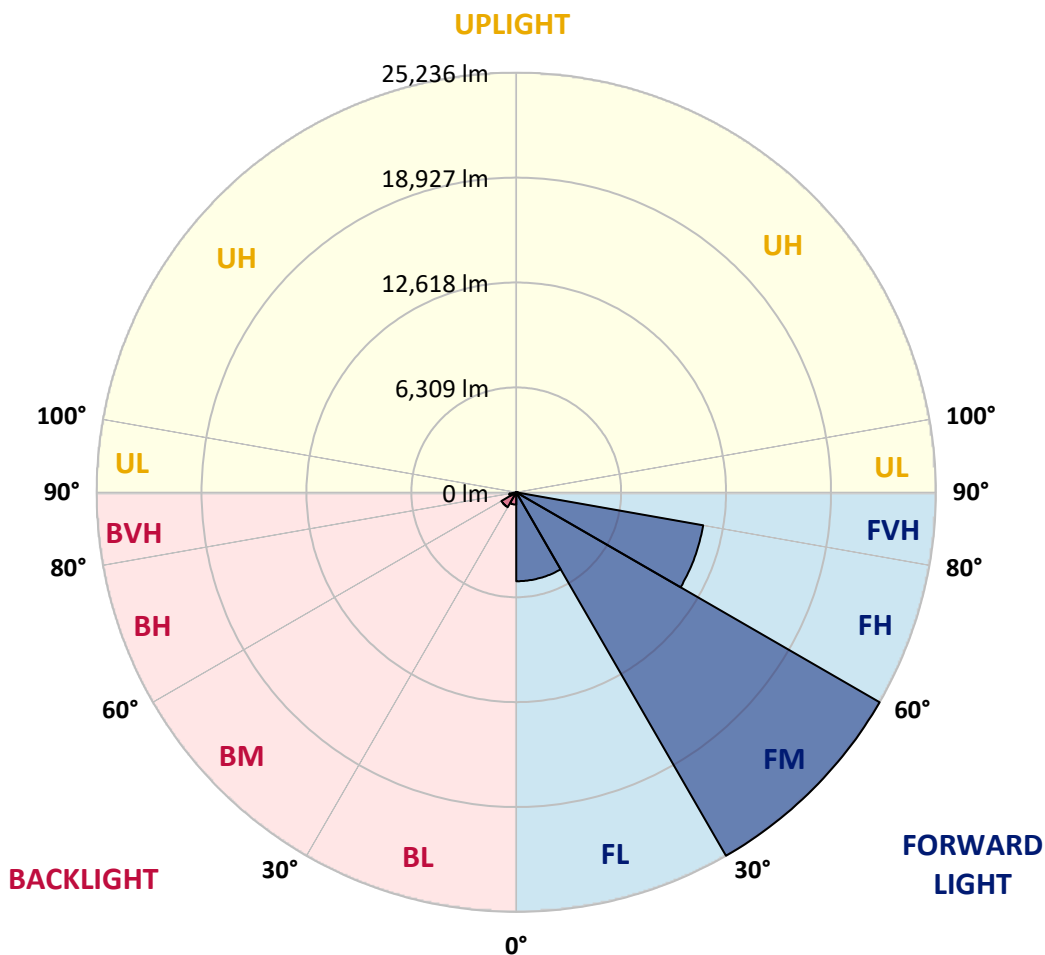


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5346.7	12.1			
FM (30°-60°)	25236.3	57.0			
FH (60°-80°)	11417.3	25.8			G4/12000
FVH (80°-90°)	98.9	0.2			G1/100
BL (0°-30°)	741.9	1.7	B2/1000		
BM (30°-60°)	1029.6	2.3	B2/2500		
BH (60°-80°)	425.1	1.0	B1/500		G1/500
BVH (80°-90°)	3.2	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 II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3757.8	3757.8	3757.8	3757.8	3757.8	3757.8	3757.8	3757.8	3757.8	3757.8	3757.8
2.5°	5609.6	5483.4	5512.5	5431.0	5283.5	4980.7	4722.5	4478.0	4192.6	4182.9	3948.1
5°	7564.2	7457.4	7443.9	7278.9	7011.0	6496.6	5995.8	5425.2	4788.5	4741.9	4243.1
7.5°	9338.3	9252.9	9221.8	9025.8	8527.0	8026.2	7374.0	6535.5	5539.7	5454.3	4641.0
10°	10700.9	10660.1	10667.9	10528.2	10101.1	9635.3	8779.3	7709.8	6391.8	6259.8	5118.5
12.5°	11733.5	11743.2	11813.1	11727.7	11489.0	11143.5	10229.2	8961.7	7335.2	7154.6	5663.9
15°	12492.5	12541.0	12669.1	12775.9	12758.4	12459.5	11621.0	10233.1	8336.7	8136.8	6271.5
17.5°	12983.6	13037.9	13224.3	13461.1	13678.5	13608.6	12964.2	11459.9	9350.0	9119.0	6921.7
20°	13414.5	13478.5	13678.5	13991.0	14396.6	14484.0	14060.8	12649.7	10361.2	10079.8	7593.3
22.5°	14348.1	14346.2	14468.5	14650.9	15037.2	15262.3	14994.5	13754.2	11360.9	11067.8	8278.5
25°	16036.8	15972.8	15930.1	15786.4	15871.8	16011.6	15862.1	14786.8	12366.3	12069.3	8973.4
27.5°	18043.8	18082.7	17737.2	17350.9	17052.0	16908.3	16663.8	15743.7	13332.9	13006.9	9652.8
30°	20161.5	20173.1	19765.5	19272.5	18614.5	18069.1	17645.9	16657.9	14326.8	13971.5	10312.7
32.5°	22071.5	21995.8	21592.0	20920.4	20089.7	19476.3	18597.0	17678.9	15378.8	15035.2	11046.4
35°	23585.5	23496.2	23005.1	22393.7	21531.9	20914.6	19856.8	18698.0	16485.2	16149.4	11782.1
37.5°	24691.9	24587.1	24082.4	23453.5	22710.1	22351.0	21318.4	19806.3	17692.5	17331.5	12556.5
40°	25076.2	24985.0	24668.6	24208.6	23610.7	23529.2	22869.2	21081.5	19006.6	18622.3	13433.9
42.5°	24847.2	24757.9	24645.3	24490.0	24241.6	24319.2	24332.8	22535.4	20466.2	20087.7	14402.5
45°	23938.7	23859.2	23975.6	24202.7	24511.4	24895.7	25668.2	24097.9	22096.7	21693.0	15522.4
47.5°	22601.4	22543.1	22865.4	23432.1	24334.7	25394.5	26889.1	25740.0	23927.1	23552.5	16920.0
50°	20699.2	20689.5	21333.9	22368.5	23756.3	25635.2	28150.8	27607.3	26469.9	26075.8	18863.0
52.5°	17737.2	17756.6	19024.1	20679.8	22741.1	25472.2	28962.1	30006.4	29428.0	29018.4	20545.8
55°	14916.8	15033.3	15932.0	18319.5	21184.4	24866.6	29241.6	31126.4	31060.4	30672.2	21481.4
57.5°	12154.7	12366.3	13232.0	15462.3	18911.5	23471.0	29088.3	31611.6	32275.5	31978.5	22715.9
60°	9161.7	9258.7	10256.4	12341.1	15994.1	20924.3	27976.1	31875.6	33937.0	33731.3	24507.5
62.5°	5828.9	6071.5	6956.7	8967.6	12453.7	17387.8	26101.1	31871.7	36015.9	36128.4	26819.2
65°	3070.7	3354.1	3823.8	5557.2	8558.0	13437.8	23280.7	31572.8	38566.4	38723.6	28626.3
67.5°	1655.7	1737.2	1985.7	2884.4	4963.2	9103.4	19136.6	30097.6	40043.5	40251.2	28878.7
70°	1211.2	1255.8	1349.0	1595.5	2498.1	5287.4	13963.8	26753.2	38139.3	38061.7	25658.5
72.5°	929.8	999.6	1069.5	1168.5	1436.4	2822.3	8693.9	20949.6	30431.5	29919.1	19179.3
75°	733.7	745.4	844.3	933.6	1077.3	1607.2	3860.7	12201.3	18573.7	17360.6	9945.8
77.5°	586.2	594.0	652.2	729.8	865.7	1055.9	1195.7	4800.2	5929.9	5291.3	2158.4
80°	347.4	366.9	485.3	562.9	718.2	665.8	436.7	1042.3	925.9	838.5	363.0
82.5°	194.1	209.6	273.7	444.5	500.8	318.3	217.4	281.4	217.4	211.6	102.9
85°	0.0	9.7	176.6	275.6	203.8	69.9	91.2	93.2	64.1	60.2	40.8
87.5°	0.0	0.0	54.3	52.4	7.8	11.6	21.4	31.1	25.2	25.2	21.4
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°	3757.8	3757.8	3757.8	3757.8	3757.8	3757.8	3757.8	3757.8	3757.8	3757.8	3757.8
2.5°	3831.6	3726.8	3528.8	3334.7	3171.6	3037.7	2917.4	2868.8	2830.0	2824.2	2793.1
5°	4002.4	3790.8	3412.3	3101.8	2894.1	2746.6	2620.4	2542.8	2482.6	2459.3	2437.9
7.5°	4260.6	3940.3	3396.8	3039.7	2791.2	2542.8	2309.8	2057.5	1900.3	1840.1	1805.2
10°	4575.0	4138.3	3455.0	3022.2	2587.4	2063.3	1677.1	1356.8	1226.7	1184.0	1172.4
12.5°	4941.9	4384.8	3556.0	2913.5	2152.6	1465.5	1156.9	1048.2	1019.0	1005.5	1005.5
15°	5363.1	4654.6	3627.8	2599.0	1591.6	1108.3	1001.6	951.1	920.0	902.6	904.5
17.5°	5794.0	4918.6	3592.9	2142.9	1174.3	986.0	906.5	852.1	809.4	791.9	788.1
20°	6228.8	5163.1	3398.7	1595.5	993.8	894.8	805.5	745.4	702.7	685.2	681.3
22.5°	6679.1	5370.8	3057.1	1170.4	892.9	793.9	706.5	646.4	605.6	590.1	582.3
25°	7117.8	5539.7	2579.6	947.2	797.8	698.8	615.3	559.0	522.1	506.6	504.7
27.5°	7527.3	5646.5	2026.4	836.6	714.3	613.4	537.7	487.2	456.1	444.5	442.6
30°	7896.1	5656.2	1498.5	755.1	640.5	539.6	469.7	425.1	397.9	386.3	382.4
32.5°	8268.8	5574.6	1090.9	681.3	572.6	475.6	407.6	372.7	353.3	343.6	343.6
35°	8620.1	5386.4	850.2	617.2	506.6	413.4	359.1	333.9	322.2	312.5	312.5
37.5°	8963.7	5116.6	722.1	561.0	444.5	361.0	316.4	300.9	291.2	281.4	281.4
40°	9313.1	4776.9	656.1	508.6	394.0	320.3	281.4	267.9	258.2	250.4	248.5
42.5°	9742.0	4384.8	613.4	460.0	349.4	283.4	248.5	232.9	225.2	217.4	213.5
45°	10238.9	4047.1	578.4	411.5	312.5	252.3	215.5	199.9	188.3	178.6	176.6
47.5°	10955.2	3802.5	531.8	359.1	277.6	219.3	186.3	168.9	151.4	141.7	139.8
50°	11869.4	3600.6	471.7	312.5	242.6	186.3	155.3	133.9	118.4	108.7	108.7
52.5°	12323.6	3336.6	417.3	271.7	203.8	157.2	126.2	100.9	93.2	83.5	83.5
55°	12506.1	3134.8	363.0	231.0	168.9	130.0	99.0	77.6	71.8	66.0	64.1
57.5°	13018.5	3076.5	316.4	196.0	139.8	102.9	75.7	58.2	54.3	46.6	46.6
60°	13843.4	3105.7	273.7	166.9	112.6	79.6	56.3	44.6	40.8	33.0	33.0
62.5°	14734.4	3068.8	231.0	143.6	87.3	58.2	38.8	33.0	33.0	19.4	17.5
65°	14905.2	2733.0	198.0	118.4	67.9	42.7	25.2	21.4	29.1	3.9	0.0
67.5°	13833.7	2119.6	170.8	91.2	50.5	33.0	19.4	9.7	25.2	0.0	0.0
70°	11061.9	1347.1	137.8	66.0	38.8	27.2	15.5	3.9	19.4	0.0	0.0
72.5°	7822.4	782.2	108.7	46.6	33.0	21.4	11.6	0.0	11.6	0.0	0.0
75°	3955.8	417.3	67.9	34.9	25.2	15.5	7.8	0.0	1.9	0.0	0.0
77.5°	856.0	194.1	42.7	25.2	17.5	9.7	3.9	0.0	0.0	0.0	0.0
80°	186.3	85.4	27.2	15.5	9.7	5.8	0.0	0.0	0.0	0.0	0.0
82.5°	67.9	44.6	13.6	7.8	3.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	36.9	23.3	7.8	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	19.4	7.8	1.9	1.9	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)