

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: P324782

Luminaire Tested: **GAN-SA8D-730-U-AFL-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P324782  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-30)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA8D-730-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 46359 lumens  
Efficiency: N/A  
Efficacy: 90.7 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

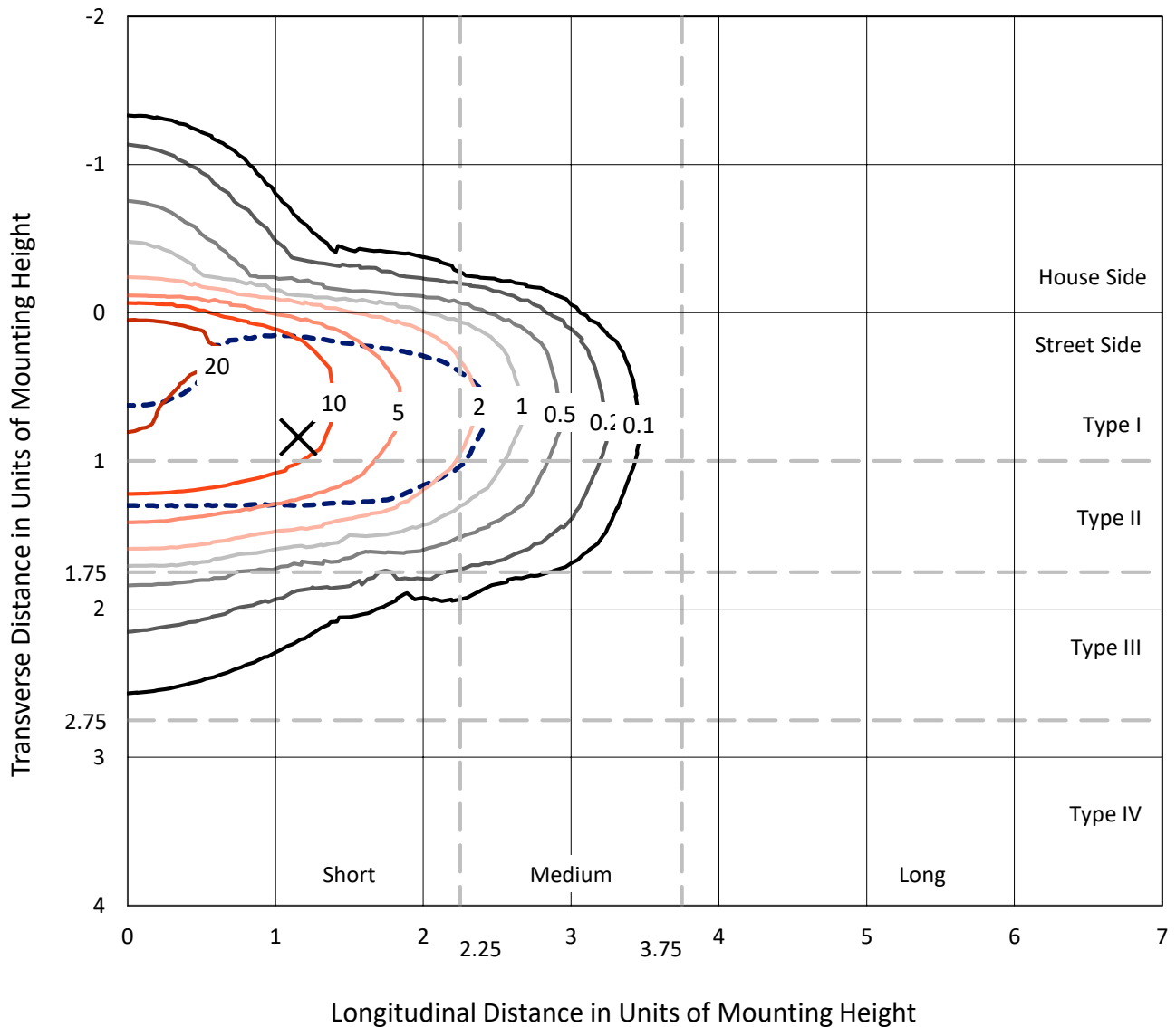
Input Watts (W): 511  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

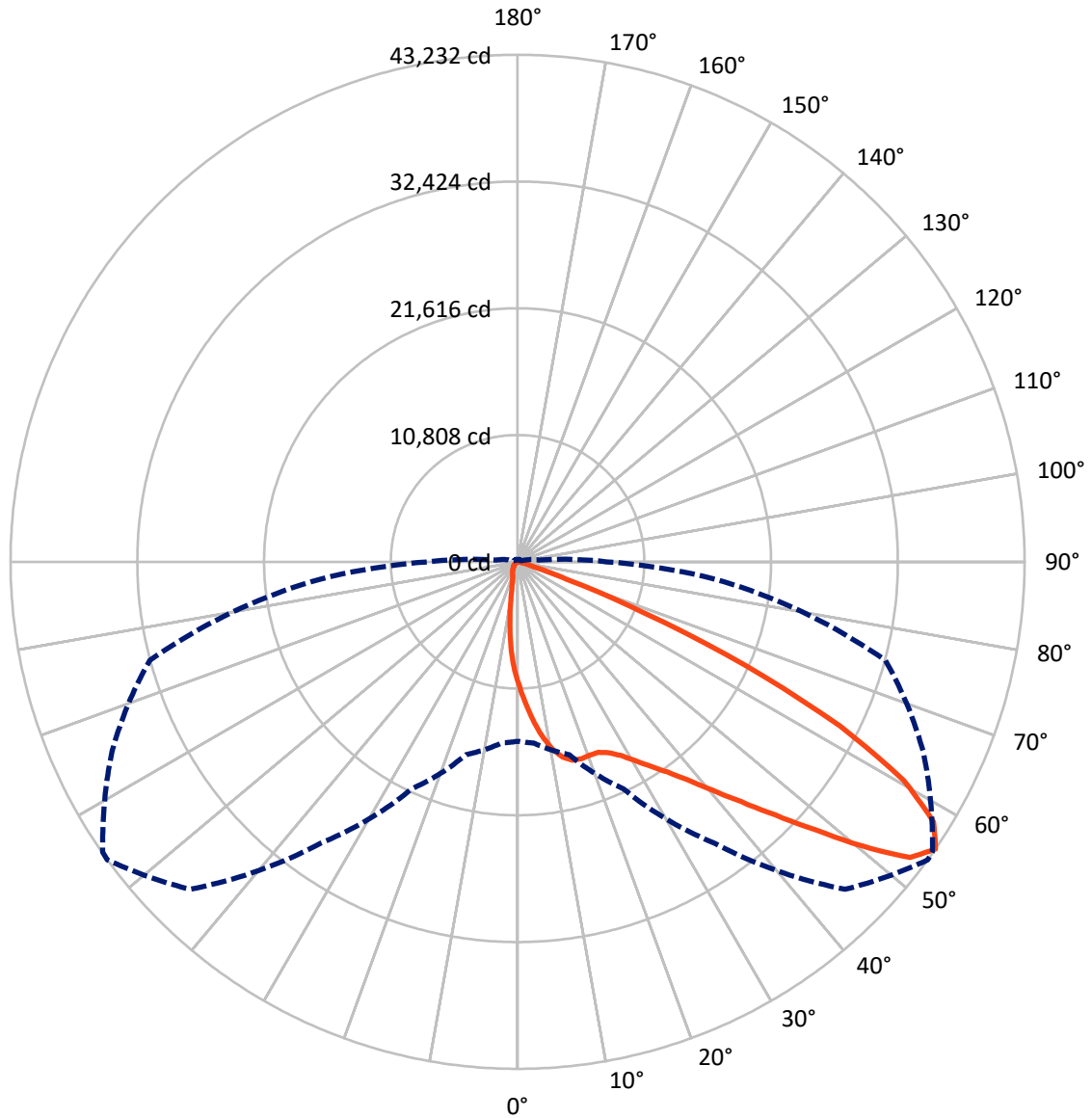
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 25.5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral      - - - Horizontal Cone Through 55-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2313.0	0.0	2313.0
	% Fixture	5.0	0.0	5.0
<b>Street Side</b>	Lumens	44046.0	0.0	44046.0
	% Fixture	95.0	0.0	95.0
<b>Total</b>	Lumens	46359.0	0.0	46359.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	956.1	2.1
10°-20°	2622.2	5.7
20°-30°	4476.9	9.7
30°-40°	7184.7	15.5
40°-50°	11481.2	24.8
50°-60°	12302.4	26.5
60°-70°	6316.4	13.6
70°-80°	956.8	2.1
80°-90°	62.3	0.1
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°	46359.0	100.0
0°-180°	46359.0	100.0

**Coefficient of Utilization**

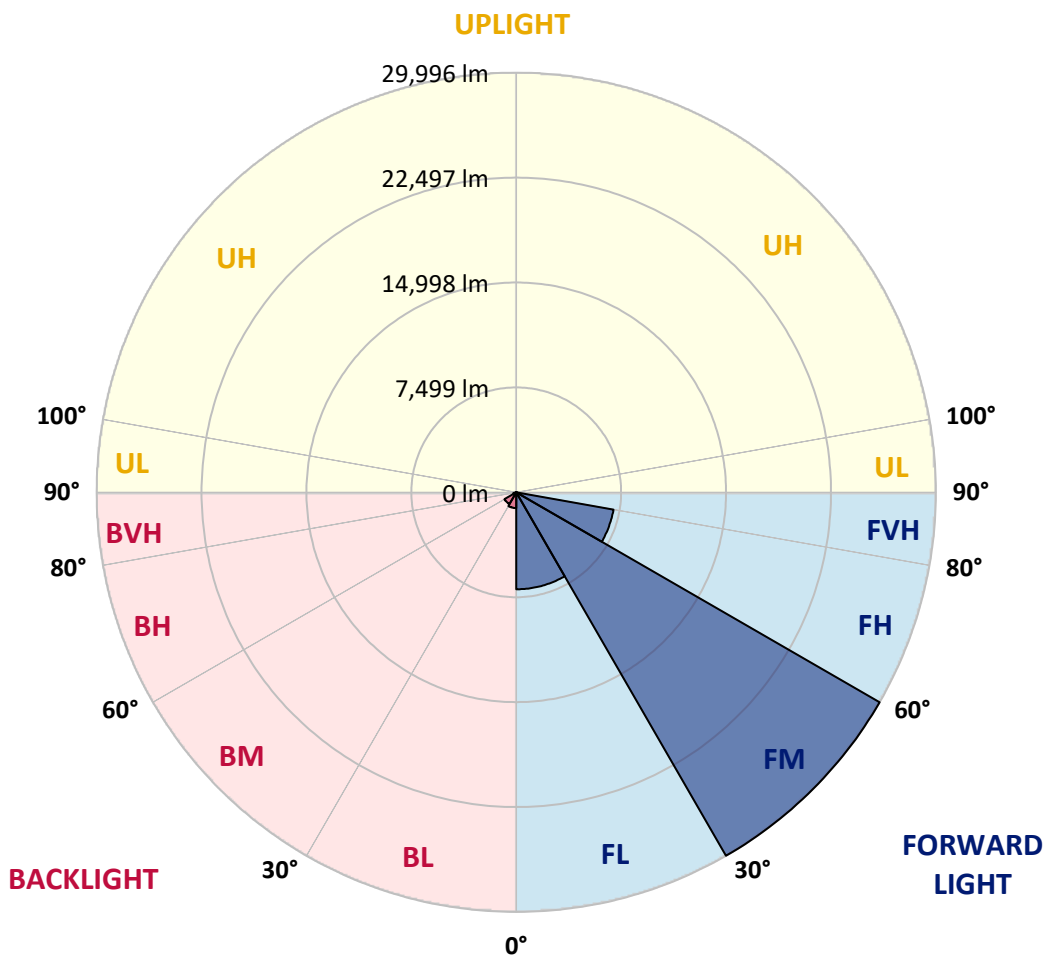


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6929.9	14.9			
FM (30°-60°)	29996.3	64.7			
FH (60°-80°)	7060.0	15.2			G3/7500
FVH (80°-90°)	59.8	0.1			G1/100
BL (0°-30°)	1125.3	2.4	B3/2500		
BM (30°-60°)	972.0	2.1	B1/1000		
BH (60°-80°)	213.1	0.5	B1/500		G1/500
BVH (80°-90°)	2.5	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-G3**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	10382.6	10382.6	10382.6	10382.6	10382.6	10382.6	10382.6	10382.6	10382.6	10382.6	10382.6
2.5°	13029.2	12835.0	12841.1	12753.0	12430.6	12178.4	11916.1	11854.1	11445.6	11017.2	10604.8
5°	15281.5	15139.4	15105.4	14935.2	14486.7	14012.2	13503.7	13385.6	12586.8	11709.9	10847.0
7.5°	16438.7	16440.7	16412.7	16350.6	16070.3	15609.9	14989.2	14865.1	13778.0	12462.7	11099.3
10°	16102.4	16178.4	16334.6	16540.8	16755.0	16697.0	16230.5	16118.4	14937.2	13259.5	11379.6
12.5°	15317.6	15327.6	15501.8	15840.1	16456.7	17089.4	17097.4	17059.3	16044.3	14092.3	11687.9
15°	14927.2	14965.2	15029.3	15247.5	15832.1	16845.1	17569.9	17623.9	17059.3	14977.2	12016.2
17.5°	15183.4	15237.5	15183.4	15209.5	15547.8	16458.7	17651.9	17790.1	17946.2	15852.1	12326.5
20°	15878.1	15928.2	15832.1	15726.0	15792.1	16346.6	17593.9	17780.1	18641.0	16628.9	12586.8
22.5°	16815.1	16835.1	16689.0	16514.8	16466.7	16727.0	17641.9	17834.1	19197.5	17331.6	12751.0
25°	17846.1	17864.2	17682.0	17481.8	17367.7	17473.8	18036.3	18180.5	19688.0	18002.3	12845.1
27.5°	18969.3	18985.3	18757.1	18510.8	18378.7	18382.7	18687.0	18841.2	20210.5	18767.1	12921.1
30°	20156.5	20148.5	19938.3	19595.9	19427.8	19423.7	19624.0	19780.1	20967.3	19748.1	13025.2
32.5°	21489.8	21473.8	21175.5	20751.1	20560.9	20588.9	20767.1	20857.2	21906.3	20793.1	13211.4
35°	23245.6	23199.6	22749.1	22222.6	21872.2	21862.2	22012.4	22084.5	23103.5	22058.4	13521.7
37.5°	25523.9	25481.9	24871.3	24106.5	23614.0	23429.8	23608.0	23700.1	24811.2	23682.1	14020.3
40°	27770.2	27728.2	27365.8	26665.1	25906.3	25463.9	25604.0	25702.1	26943.4	25652.1	14648.9
42.5°	29319.8	29355.8	29482.0	29540.0	28829.3	27900.4	27964.4	28066.5	29183.7	27758.2	15367.6
45°	29728.2	29806.3	30519.0	31918.4	32184.7	31460.0	30789.3	30845.4	31460.0	29864.4	16086.4
47.5°	28501.0	28645.1	30020.5	32623.2	34877.5	35390.0	34120.7	34046.6	33644.2	31568.1	16596.9
50°	25712.1	25844.3	27626.1	31476.0	35694.3	39141.8	38112.7	37894.5	35560.2	32587.1	16777.1
52.5°	21676.0	21836.2	23283.7	27864.3	34154.7	40815.5	41892.6	41710.4	36965.6	32667.2	16807.1
55°	15307.6	15501.8	17033.3	21355.7	29275.8	39484.1	43232.0	43177.9	38132.8	32455.0	16871.2
57.5°	8602.7	8742.9	10394.6	13689.9	21441.8	34391.0	41832.5	42190.9	38837.5	32086.6	16967.2
60°	3819.9	3857.9	4712.8	6814.9	12552.8	26282.7	37826.5	38431.1	38232.9	31594.1	17129.4
62.5°	2118.2	2086.1	2086.1	2832.9	5455.5	16270.5	30845.4	31844.4	35652.2	31011.5	17137.4
65°	1659.7	1629.7	1543.6	1555.6	2078.1	7221.3	21359.7	23135.5	30751.3	29303.8	16560.8
67.5°	1407.4	1381.4	1295.3	1261.3	1291.3	2382.4	11735.9	13579.8	23333.7	24865.3	14344.6
70°	1189.2	1171.2	1127.1	1085.1	1009.0	1177.2	4490.6	5743.8	14378.6	16540.8	9792.0
72.5°	957.0	949.0	965.0	928.9	836.9	784.8	1535.6	1859.9	6458.6	7381.5	4034.1
75°	824.8	820.8	828.8	792.8	688.7	546.6	780.8	852.9	1821.9	1805.8	816.8
77.5°	536.5	542.6	686.7	670.7	592.6	364.4	404.4	436.4	552.6	414.4	248.3
80°	342.3	338.3	348.4	556.6	532.5	278.3	202.2	212.2	266.3	204.2	120.1
82.5°	208.2	204.2	228.2	260.3	268.3	194.2	124.1	126.1	166.2	132.1	64.1
85°	18.0	24.0	138.1	128.1	92.1	60.1	60.1	64.1	88.1	78.1	36.0
87.5°	0.0	0.0	24.0	36.0	20.0	22.0	22.0	24.0	34.0	34.0	18.0
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°	10382.6	10382.6	10382.6	10382.6	10382.6	10382.6	10382.6	10382.6	10382.6	10382.6	10382.6
2.5°	10390.6	10182.4	9761.9	9357.5	9015.2	8684.8	8308.4	7936.1	7761.9	7691.8	7619.7
5°	10408.6	9980.1	9113.3	8240.4	7335.5	6520.6	5825.9	5113.2	4756.8	4600.7	4528.6
7.5°	10432.6	9779.9	8378.5	6913.0	5455.5	4350.4	3385.4	2764.8	2496.5	2454.5	2350.4
10°	10436.6	9537.7	7525.7	5447.5	3657.7	2622.7	2018.1	1697.7	1579.6	1559.6	1525.6
12.5°	10444.6	9251.4	6578.7	4034.1	2438.5	1753.8	1459.5	1353.4	1321.3	1319.3	1319.3
15°	10468.6	8951.1	5595.7	2907.0	1751.8	1389.4	1281.3	1239.3	1227.2	1233.3	1231.3
17.5°	10468.6	8596.7	4630.7	2166.2	1415.4	1249.3	1189.2	1161.2	1157.2	1163.2	1165.2
20°	10392.6	8166.3	3745.8	1685.7	1255.3	1159.2	1105.1	1079.1	1069.1	1073.1	1075.1
22.5°	10210.4	7637.8	3025.1	1395.4	1149.2	1077.1	1019.0	979.0	963.0	965.0	965.0
25°	9926.1	7011.1	2366.4	1207.2	1063.1	989.0	920.9	874.9	864.9	862.9	866.9
27.5°	9561.7	6318.4	1883.9	1063.1	961.0	890.9	822.8	784.8	776.8	778.8	780.8
30°	9203.4	5599.7	1485.5	941.0	846.9	780.8	728.7	710.7	710.7	716.7	718.7
32.5°	8875.0	4909.0	1175.2	834.8	744.8	684.7	654.7	652.7	662.7	666.7	668.7
35°	8592.7	4270.3	973.0	752.8	664.7	612.6	602.6	610.6	622.6	630.6	632.6
37.5°	8392.5	3699.8	850.9	684.7	602.6	560.6	558.6	574.6	590.6	608.6	612.6
40°	8308.4	3217.3	766.8	624.6	552.6	520.5	514.5	536.5	566.6	592.6	596.6
42.5°	8238.4	2822.9	694.7	566.6	512.5	466.5	464.5	492.5	528.5	554.6	560.6
45°	8178.3	2506.5	628.6	504.5	460.5	400.4	406.4	442.4	470.5	498.5	504.5
47.5°	8054.2	2246.3	556.6	438.4	380.4	342.3	354.4	386.4	408.4	450.5	456.5
50°	7832.0	2034.1	482.5	358.4	310.3	296.3	314.3	336.3	364.4	400.4	404.4
52.5°	7681.8	1873.9	418.4	300.3	256.3	260.3	278.3	286.3	302.3	316.3	312.3
55°	7595.7	1785.8	366.4	260.3	218.2	230.2	234.2	224.2	216.2	202.2	196.2
57.5°	7585.7	1705.7	326.3	226.2	192.2	198.2	184.2	150.2	122.1	106.1	102.1
60°	7569.7	1607.6	294.3	190.2	170.2	162.2	132.1	82.1	58.1	54.1	54.1
62.5°	7395.5	1455.5	270.3	160.2	144.1	122.1	76.1	38.0	32.0	34.0	34.0
65°	6841.0	1243.3	246.3	130.1	114.1	88.1	38.0	22.0	12.0	14.0	14.0
67.5°	5815.9	991.0	220.2	100.1	86.1	56.1	22.0	10.0	0.0	0.0	0.0
70°	3894.0	614.6	186.2	70.1	56.1	34.0	16.0	2.0	0.0	0.0	0.0
72.5°	1493.5	332.3	150.2	42.0	36.0	24.0	10.0	0.0	0.0	0.0	0.0
75°	336.3	218.2	104.1	30.0	26.0	16.0	4.0	0.0	0.0	0.0	0.0
77.5°	128.1	158.2	60.1	20.0	18.0	10.0	0.0	0.0	0.0	0.0	0.0
80°	62.1	94.1	28.0	12.0	10.0	4.0	0.0	0.0	0.0	0.0	0.0
82.5°	32.0	36.0	12.0	6.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	18.0	18.0	6.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.0	6.0	2.0	2.0	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)