

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: P322525

Luminaire Tested: **GAN-SA1C-730-U-T4FT-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P322525  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA1C-730-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV FORWARD  
THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4790 lumens  
Efficiency: N/A  
Efficacy: 81.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

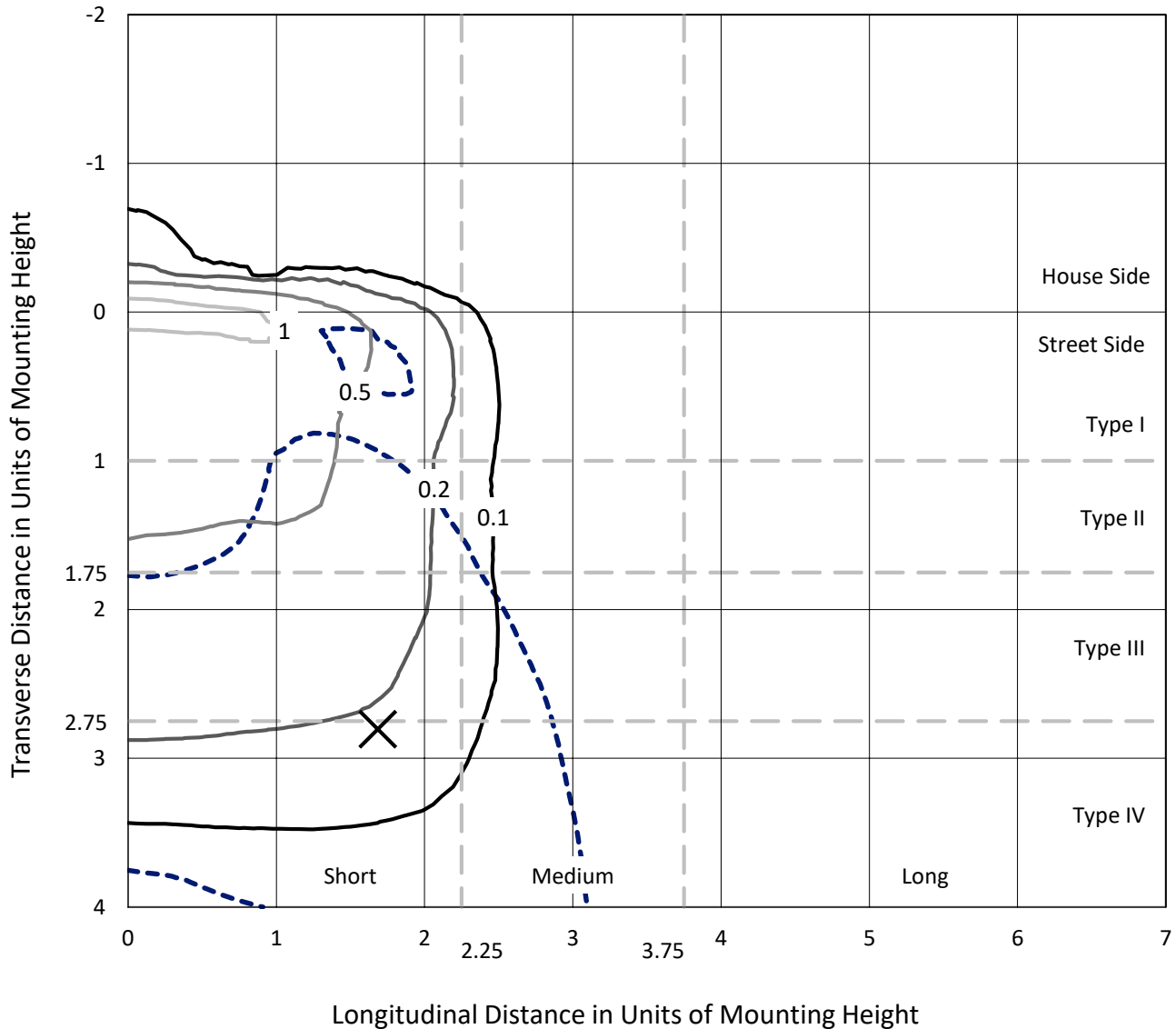
Input Watts (W): 59  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

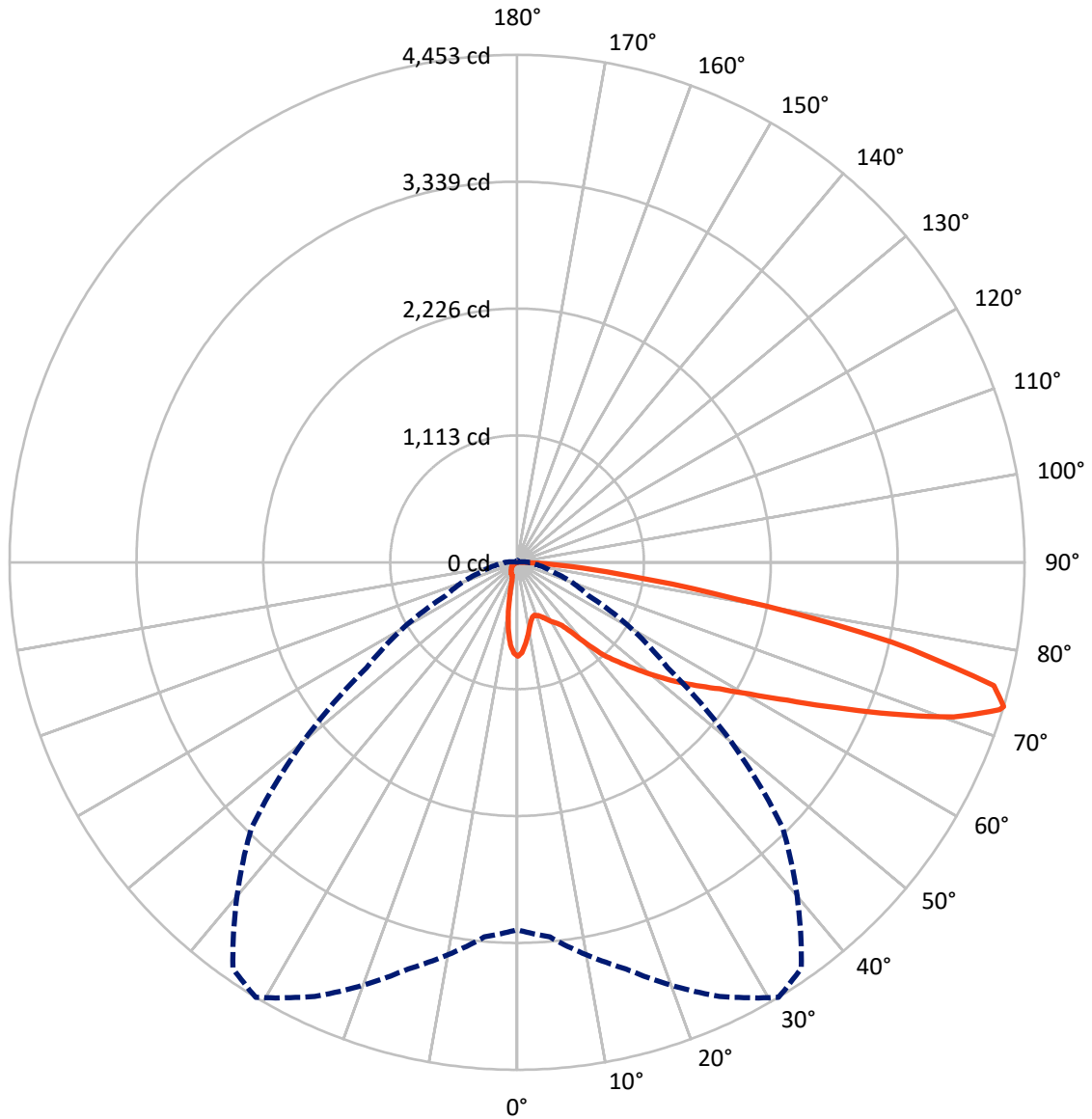
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 31-Deg Lateral      - - - Horizontal Cone Through 73-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	436.6	0.0	436.6
	% Fixture	9.1	0.0	9.1
<b>Street Side</b>	Lumens	4353.4	0.0	4353.4
	% Fixture	90.9	0.0	90.9
<b>Total</b>	Lumens	4790.0	0.0	4790.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	68.3	1.4
10°-20°	148.4	3.1
20°-30°	222.3	4.6
30°-40°	353.7	7.4
40°-50°	631.6	13.2
50°-60°	980.0	20.5
60°-70°	1302.8	27.2
70°-80°	980.0	20.5
80°-90°	103.0	2.1
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°	4790.0	100.0
0°-180°	4790.0	100.0

**Coefficient of Utilization**



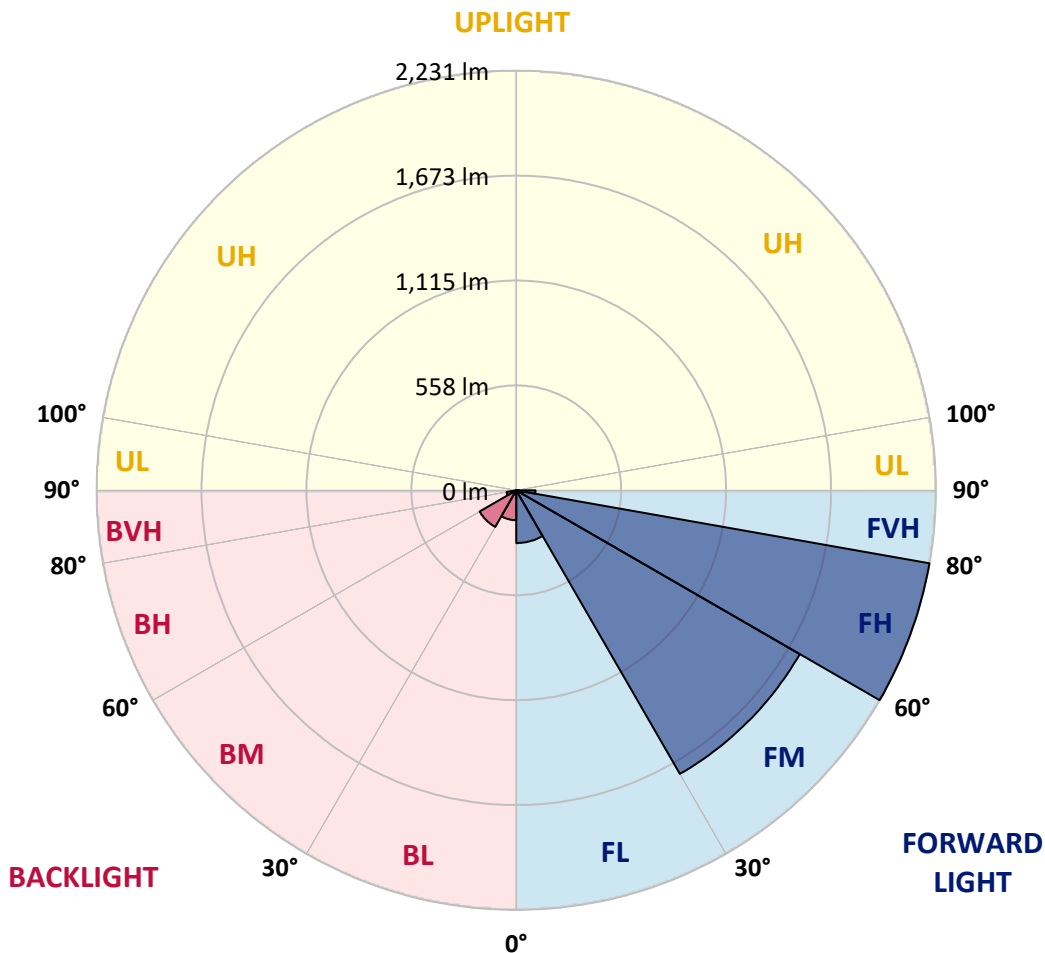
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	280.2	5.9			
FM (30°-60°)	1740.5	36.3			
FH (60°-80°)	2230.5	46.6			G2/5000
FVH (80°-90°)	102.1	2.1			G2/225
BL (0°-30°)	158.8	3.3	B1/500		
BM (30°-60°)	224.7	4.7	B1/1000		
BH (60°-80°)	52.2	1.1	B0/110		G0/110
BVH (80°-90°)	0.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	31°	35°	45°	55°	65°	75°	85°
0°	824.1	824.1	824.1	824.1	824.1	824.1	824.1	824.1	824.1	824.1	824.1
2.5°	781.0	784.3	787.8	788.5	794.4	794.6	803.0	809.4	815.7	821.8	823.9
5°	700.8	706.2	712.6	718.9	731.3	736.2	756.9	778.0	798.1	817.3	826.7
7.5°	615.3	621.4	630.3	646.0	659.8	669.4	702.0	739.5	777.0	812.4	832.8
10°	537.2	542.9	552.2	568.9	590.2	603.3	647.2	699.2	754.3	808.0	841.9
12.5°	487.5	490.6	495.7	513.6	532.8	547.5	599.1	663.6	735.5	807.7	856.7
15°	478.4	479.3	475.1	483.1	498.1	512.4	564.7	634.7	721.2	811.5	875.9
17.5°	492.9	492.5	478.4	477.5	489.4	501.1	547.8	614.8	711.2	820.1	900.8
20°	515.0	513.3	488.9	484.5	497.1	508.2	546.6	607.3	707.4	834.7	931.0
22.5°	544.3	541.5	503.2	498.6	512.2	523.6	561.1	614.6	710.7	854.1	966.2
25°	580.6	576.4	527.9	522.7	536.5	548.0	587.2	635.4	720.5	877.8	1010.7
27.5°	621.6	615.5	567.2	553.9	569.6	581.5	621.8	667.3	736.0	902.9	1065.3
30°	660.3	652.3	608.7	586.7	605.9	619.3	659.4	705.3	760.8	941.6	1140.1
32.5°	699.2	690.3	645.8	619.5	636.8	651.4	698.0	757.6	807.5	1000.6	1239.5
35°	788.7	779.4	724.7	681.4	681.1	689.4	752.2	829.1	869.1	1082.9	1358.1
37.5°	939.5	934.1	882.0	799.8	777.7	768.6	826.0	914.4	957.7	1196.1	1491.9
40°	1104.5	1099.8	1041.4	966.9	933.4	910.9	932.0	1033.2	1082.9	1334.4	1628.6
42.5°	1290.8	1268.5	1164.5	1142.2	1112.2	1095.1	1076.1	1179.7	1236.7	1484.9	1764.0
45°	1460.0	1422.5	1287.5	1253.8	1247.0	1251.2	1261.7	1376.6	1409.6	1663.7	1899.1
47.5°	1560.8	1531.3	1427.7	1395.3	1393.5	1421.4	1501.1	1599.0	1581.9	1819.6	2017.9
50°	1656.7	1630.0	1544.0	1551.9	1560.6	1598.6	1772.7	1827.8	1739.2	1960.9	2126.9
52.5°	1734.3	1693.5	1648.5	1693.3	1735.9	1797.1	2053.1	2033.1	1850.8	2073.4	2220.2
55°	1779.1	1760.5	1782.3	1827.3	1907.5	2006.9	2317.7	2204.0	1932.3	2176.1	2282.3
57.5°	1943.1	1906.8	1950.2	1989.1	2093.6	2232.6	2544.3	2331.3	1991.2	2239.6	2296.6
60°	2141.7	2112.4	2137.9	2202.6	2343.7	2507.1	2756.2	2435.1	2021.9	2280.4	2259.6
62.5°	2457.6	2418.9	2403.0	2475.4	2662.5	2840.9	2917.0	2507.1	2015.1	2262.4	2132.5
65°	2880.9	2840.9	2769.6	2835.2	3073.1	3199.0	3096.8	2522.3	1968.2	2116.3	1811.4
67.5°	3314.6	3285.5	3224.6	3335.2	3549.9	3590.4	3286.9	2485.3	1817.3	1716.0	1279.8
70°	3601.0	3588.6	3628.2	3872.9	4064.4	4052.7	3461.3	2286.3	1416.4	1055.2	633.1
72.5°	3394.5	3454.0	3746.6	4190.3	4424.2	4328.6	3371.8	1755.6	809.6	406.0	183.1
73°	3223.4	3299.6	3693.3	4202.2	4452.5	4347.8	3296.5	1611.5	690.1	320.4	138.8
75°	2242.4	2336.0	3057.7	3913.7	4319.9	4142.4	2747.8	986.3	319.7	142.0	56.0
77.5°	1088.8	1157.9	1683.7	2827.7	3359.6	3236.5	1710.6	367.5	144.4	88.8	25.8
80°	406.4	451.9	730.8	1439.2	1941.5	1992.3	752.4	139.0	96.1	71.5	13.1
82.5°	106.4	118.6	269.6	641.8	995.0	1041.4	237.2	70.1	70.3	58.8	8.0
85°	34.0	38.9	84.1	288.1	468.8	411.6	61.9	34.0	51.1	43.8	4.5
87.5°	4.2	5.4	26.7	67.7	103.4	57.4	9.6	10.1	21.8	24.4	2.6
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°	824.1	824.1	824.1	824.1	824.1	824.1	824.1	824.1	824.1	824.1	824.1
2.5°	826.0	824.8	825.1	819.0	815.0	807.0	798.8	795.1	791.1	789.4	791.1
5°	830.2	828.1	822.0	803.3	783.3	757.6	733.4	715.1	692.2	685.8	692.4
7.5°	836.8	832.6	814.8	776.5	732.2	683.0	627.7	587.4	554.3	533.0	540.7
10°	846.4	838.4	802.6	737.6	658.4	571.2	492.7	431.5	388.2	370.3	369.6
12.5°	862.6	847.6	787.6	687.0	568.2	451.9	349.0	282.7	247.5	224.8	224.3
15°	880.4	858.4	768.6	626.3	463.2	323.7	224.8	174.4	151.7	144.4	143.4
17.5°	902.2	870.8	744.0	551.5	353.2	214.5	146.7	132.2	131.3	130.6	130.6
20°	929.6	885.5	712.3	466.0	250.6	143.2	124.7	125.6	126.1	125.2	125.4
22.5°	961.5	900.5	674.6	374.1	169.5	119.8	119.3	120.5	120.9	120.5	120.7
25°	998.5	917.9	628.6	277.8	122.4	113.7	114.9	116.5	117.7	117.7	117.7
27.5°	1044.5	939.0	573.3	193.8	105.7	107.4	110.6	113.7	115.3	115.8	115.8
30°	1104.2	965.2	507.0	132.9	96.1	98.9	105.0	110.9	113.9	114.4	114.6
32.5°	1179.7	994.8	430.1	98.2	87.9	90.0	96.6	106.4	112.3	113.2	113.2
35°	1266.2	1029.0	347.4	85.6	82.0	82.7	87.9	99.1	109.5	112.0	112.3
37.5°	1360.9	1062.7	264.2	79.9	77.1	77.1	80.9	90.5	102.7	110.6	111.6
40°	1449.3	1083.1	185.2	75.5	72.7	72.7	75.9	83.0	94.5	106.4	109.0
42.5°	1530.8	1090.2	128.9	71.3	68.4	69.1	72.0	77.6	86.3	98.2	100.6
45°	1614.7	1089.0	94.0	66.3	64.2	66.3	68.4	72.7	79.0	85.8	86.3
47.5°	1678.0	1079.1	74.5	61.6	60.2	63.1	64.9	67.7	71.3	70.8	70.8
50°	1737.3	1055.2	60.0	55.3	56.3	59.5	60.5	61.4	61.6	57.2	56.7
52.5°	1782.3	1018.0	48.1	48.5	52.3	55.6	54.6	53.2	50.9	45.5	44.5
55°	1797.3	946.2	37.7	40.1	46.4	50.6	47.1	44.1	39.6	35.2	34.2
57.5°	1770.1	853.7	30.7	31.2	39.1	42.7	38.7	35.2	30.2	26.5	25.8
60°	1712.5	750.8	25.3	23.4	30.2	33.3	30.7	27.2	22.7	19.9	19.7
62.5°	1598.1	641.1	20.9	18.3	23.0	25.5	23.9	21.3	17.6	15.7	15.5
65°	1357.6	512.9	16.9	14.8	17.8	19.9	18.5	16.6	13.8	12.4	12.2
67.5°	947.7	346.7	13.8	12.2	14.1	15.7	14.5	13.6	11.0	10.8	11.0
70°	457.1	167.1	11.5	9.8	11.0	12.2	11.7	11.0	10.5	12.2	14.1
72.5°	131.0	56.0	9.1	8.2	8.9	9.6	10.1	9.8	11.5	14.8	17.1
73°	100.8	45.2	8.7	7.7	8.4	9.4	9.8	9.6	11.7	15.0	17.1
75°	43.1	21.8	6.6	6.3	7.0	8.2	8.7	8.7	11.7	15.2	16.4
77.5°	19.5	11.7	4.2	4.9	6.1	6.6	7.3	7.3	9.4	11.7	11.7
80°	11.0	6.3	3.3	3.8	4.5	4.5	4.5	4.0	4.2	4.7	5.2
82.5°	7.0	4.2	2.6	3.0	2.8	2.3	1.9	1.9	1.6	1.9	2.3
85°	4.0	2.3	2.3	1.9	1.2	0.9	1.2	0.9	0.2	0.0	0.2
87.5°	2.3	1.4	0.7	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)