

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: P322509

Luminaire Tested: **GAN-SA5A-730-U-T4FT-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P322509  
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-SA5A-730-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15064 lumens  
Efficiency: N/A  
Efficacy: 93.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3

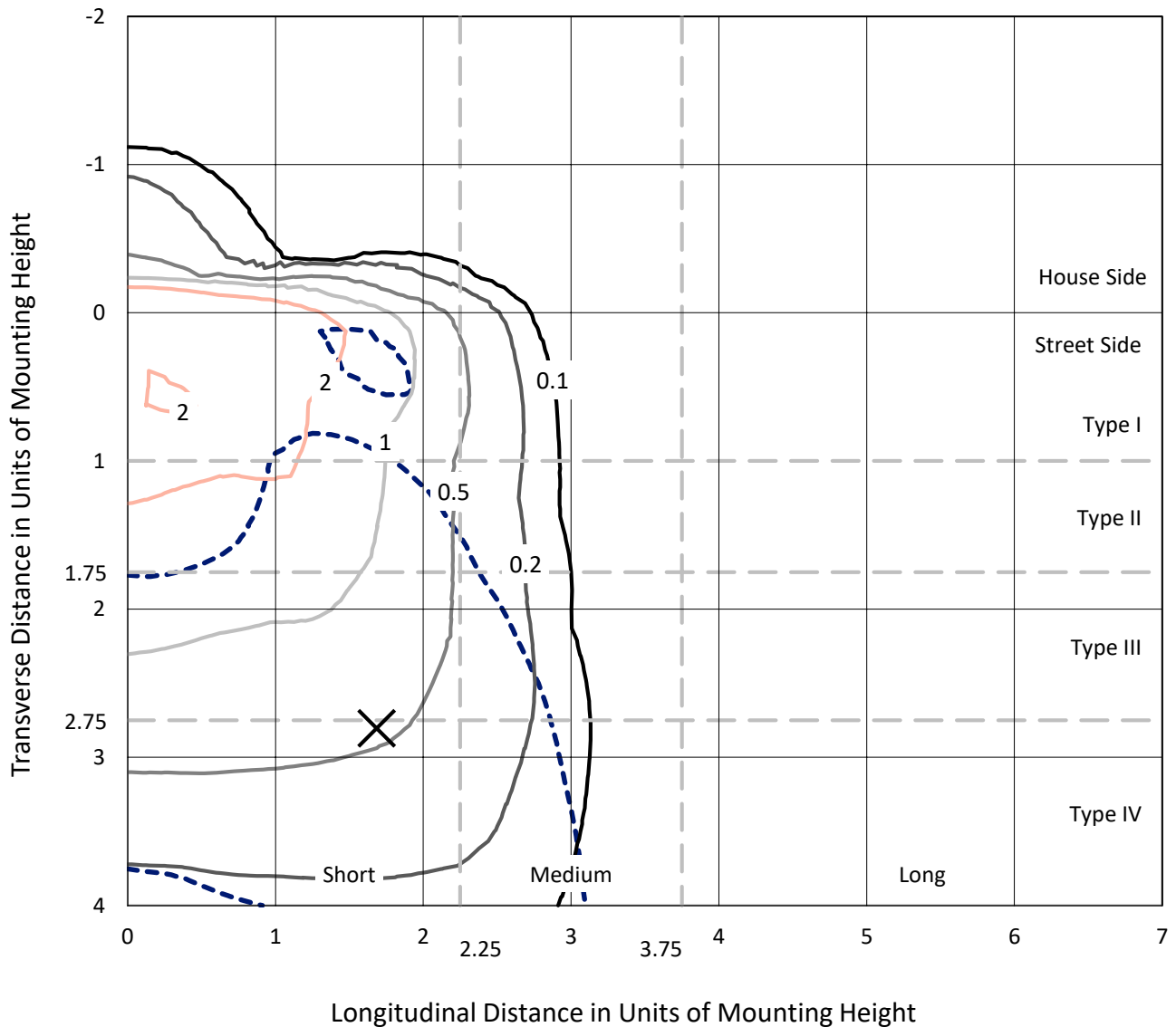
Input Watts (W): 162  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

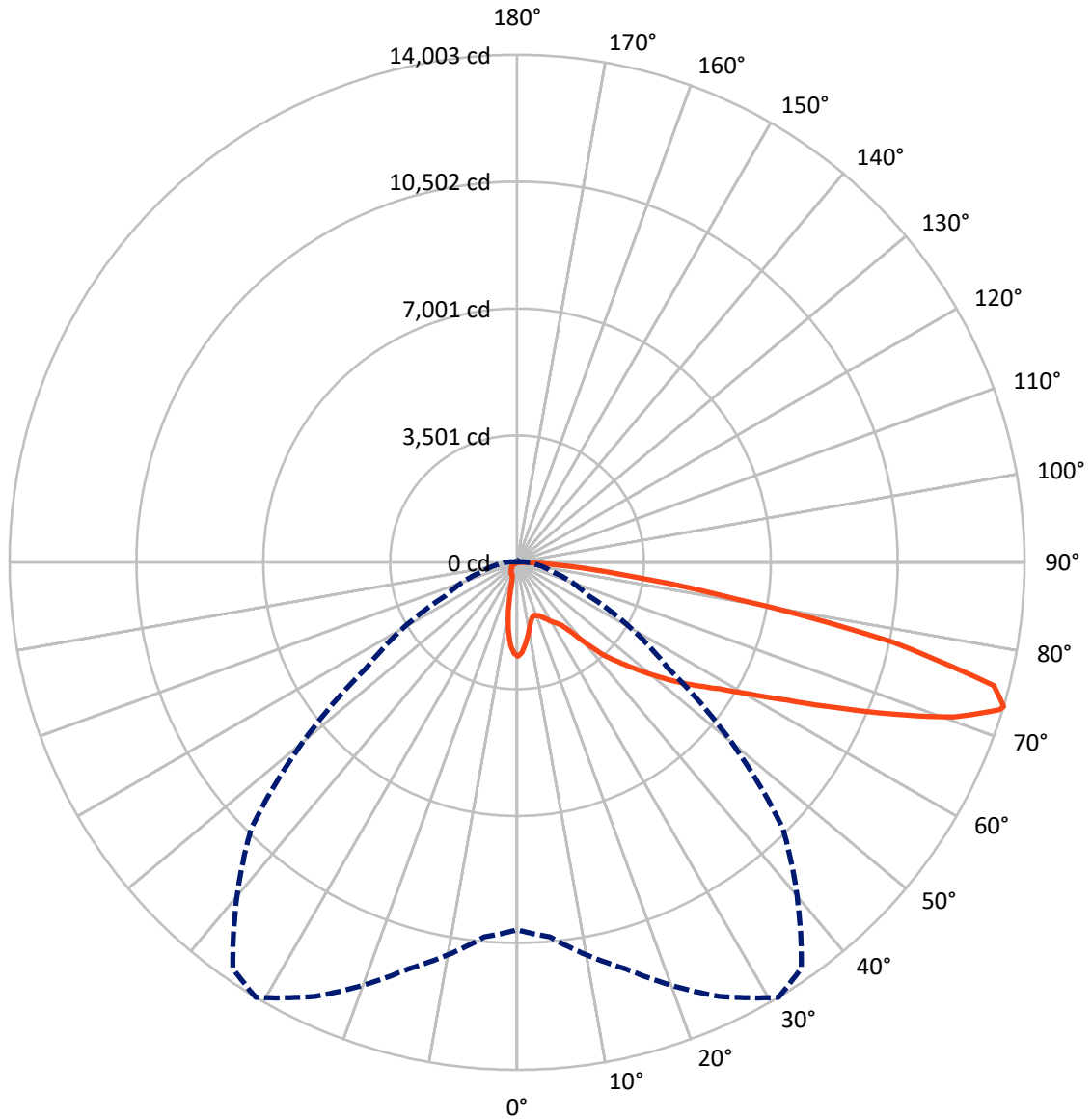
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 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	1373.1	0.0	1373.1
	% Fixture	9.1	0.0	9.1
<b>Street Side</b>	Lumens	13690.9	0.0	13690.9
	% Fixture	90.9	0.0	90.9
<b>Total</b>	Lumens	15064.0	0.0	15064.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	214.9	1.4
10°-20°	466.6	3.1
20°-30°	699.1	4.6
30°-40°	1112.3	7.4
40°-50°	1986.2	13.2
50°-60°	3082.0	20.5
60°-70°	4097.1	27.2
70°-80°	3081.9	20.5
80°-90°	323.8	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°	15064.0	100.0
0°-180°	15064.0	100.0



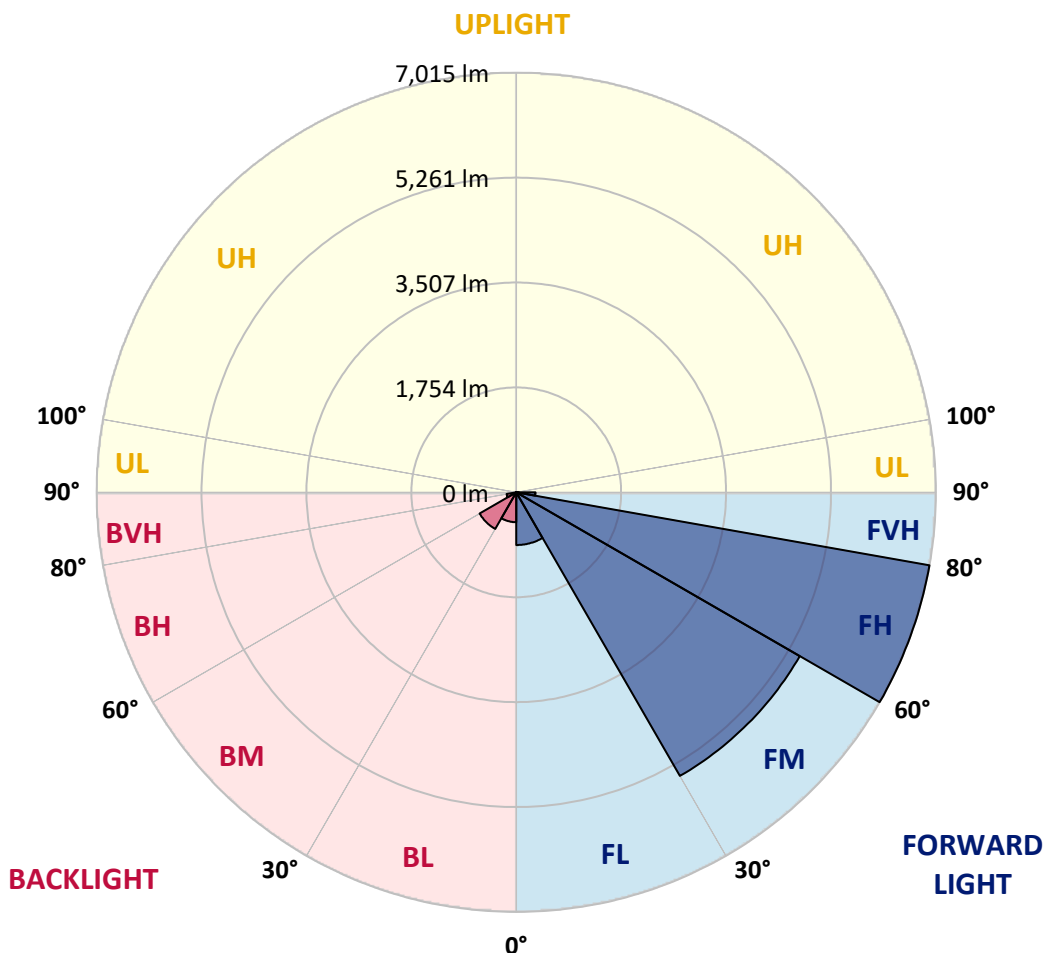
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	881.3	5.9			
FM (30°-60°)	5473.7	36.3			
FH (60°-80°)	7014.7	46.6			G3/7500
FVH (80°-90°)	321.1	2.1			G3/500
BL (0°-30°)	499.3	3.3	B1/500		
BM (30°-60°)	706.8	4.7	B1/1000		
BH (60°-80°)	164.3	1.1	B1/500		G1/500
BVH (80°-90°)	2.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	31°	35°	45°	55°	65°	75°	85°
0°	2591.8	2591.8	2591.8	2591.8	2591.8	2591.8	2591.8	2591.8	2591.8	2591.8	2591.8
2.5°	2456.2	2466.5	2477.5	2479.7	2498.2	2498.9	2525.4	2545.4	2565.3	2584.4	2591.1
5°	2204.1	2221.0	2240.9	2260.8	2299.9	2315.4	2380.2	2446.6	2510.0	2570.4	2599.9
7.5°	1935.0	1954.2	1982.2	2031.6	2075.1	2105.3	2207.7	2325.7	2443.6	2554.9	2619.1
10°	1689.5	1707.2	1736.7	1789.0	1856.1	1897.4	2035.2	2198.9	2372.1	2540.9	2647.8
12.5°	1533.3	1542.8	1559.1	1615.1	1675.5	1722.0	1884.1	2086.8	2313.2	2540.2	2694.3
15°	1504.5	1507.5	1494.2	1519.3	1566.4	1611.4	1775.8	1996.2	2268.2	2552.0	2754.7
17.5°	1550.2	1548.7	1504.5	1501.6	1539.2	1576.0	1722.7	1933.5	2236.5	2579.3	2832.8
20°	1619.5	1614.3	1537.7	1523.7	1563.5	1598.1	1719.0	1909.9	2224.7	2625.0	2927.9
22.5°	1711.6	1702.8	1582.6	1567.9	1610.7	1646.8	1764.7	1932.8	2235.0	2686.1	3038.5
25°	1825.9	1812.6	1660.0	1643.8	1687.3	1723.4	1846.5	1998.4	2266.0	2760.6	3178.6
27.5°	1954.9	1935.7	1783.9	1741.9	1791.3	1828.8	1955.6	2098.6	2314.6	2839.5	3350.3
30°	2076.5	2051.5	1914.4	1845.1	1905.5	1947.5	2073.6	2218.1	2392.8	2961.1	3585.5
32.5°	2198.9	2170.9	2030.8	1948.3	2002.8	2048.5	2195.2	2382.4	2539.5	3146.9	3898.0
35°	2480.5	2451.0	2279.2	2142.9	2142.1	2167.9	2365.5	2607.3	2733.3	3405.6	4271.0
37.5°	2954.5	2937.5	2773.9	2515.1	2445.8	2417.1	2597.7	2875.6	3012.0	3761.6	4691.9
40°	3473.4	3458.7	3275.1	3040.7	2935.3	2864.5	2930.9	3249.3	3405.6	4196.6	5121.7
42.5°	4059.4	3989.4	3662.1	3592.1	3497.7	3443.9	3384.2	3710.0	3889.2	4669.8	5547.7
45°	4591.7	4473.7	4049.1	3943.0	3921.6	3934.9	3968.0	4329.2	4433.2	5232.2	5972.3
47.5°	4908.6	4815.8	4489.9	4388.2	4382.3	4470.0	4720.7	5028.8	4975.0	5722.4	6346.1
50°	5210.1	5126.1	4855.6	4880.6	4907.9	5027.3	5575.0	5748.2	5469.6	6166.9	6688.8
52.5°	5454.1	5325.9	5184.3	5325.1	5459.3	5651.7	6456.6	6394.0	5820.5	6520.8	6982.2
55°	5594.9	5536.7	5605.2	5746.8	5998.9	6311.4	7288.9	6931.3	6077.0	6843.6	7177.6
57.5°	6110.9	5996.7	6133.0	6255.4	6584.2	7021.3	8001.7	7331.6	6262.0	7043.4	7222.5
60°	6735.3	6643.1	6723.5	6926.9	7370.7	7884.5	8668.1	7658.2	6358.6	7171.7	7106.1
62.5°	7728.9	7607.3	7557.2	7785.0	8373.2	8934.2	9173.7	7884.5	6337.2	7114.9	6706.5
65°	9060.2	8934.2	8710.1	8916.5	9664.7	10060.5	9739.1	7932.4	6189.8	6655.7	5696.6
67.5°	10423.9	10332.5	10140.9	10488.8	11164.0	11291.5	10336.9	7815.9	5715.1	5396.6	4024.8
70°	11324.7	11285.6	11410.2	12179.8	12782.0	12745.2	10885.4	7190.1	4454.6	3318.6	1991.0
72.5°	10675.3	10862.5	11782.5	13177.9	13913.6	13612.8	10603.8	5521.2	2546.1	1276.7	575.7
73°	10137.2	10376.8	11615.2	13215.5	14002.8	13673.3	10367.2	5067.9	2170.1	1007.7	436.4
75°	7052.2	7346.4	9616.0	12308.1	13585.5	13027.5	8641.5	3101.9	1005.5	446.7	176.2
77.5°	3424.0	3641.5	5294.9	8892.9	10565.5	10178.5	5379.7	1155.8	454.1	279.4	81.1
80°	1278.2	1421.2	2298.4	4526.1	6105.7	6265.7	2366.2	437.1	302.2	224.8	41.3
82.5°	334.7	373.0	847.7	2018.3	3129.2	3275.1	746.0	220.4	221.1	185.0	25.1
85°	106.9	122.4	264.6	905.9	1474.3	1294.4	194.6	106.9	160.7	137.8	14.0
87.5°	13.3	17.0	84.0	213.0	325.1	180.6	30.2	31.7	68.6	76.7	8.1
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°	2591.8	2591.8	2591.8	2591.8	2591.8	2591.8	2591.8	2591.8	2591.8	2591.8	2591.8
2.5°	2597.7	2594.0	2594.7	2575.6	2563.0	2538.0	2512.2	2500.4	2487.9	2482.7	2487.9
5°	2611.0	2604.3	2585.2	2526.2	2463.5	2382.4	2306.5	2249.0	2176.8	2156.9	2177.5
7.5°	2631.6	2618.3	2562.3	2442.2	2302.8	2148.0	1974.1	1847.3	1743.3	1676.3	1700.6
10°	2661.8	2636.8	2524.0	2319.8	2070.6	1796.4	1549.5	1357.1	1220.7	1164.7	1162.5
12.5°	2712.7	2665.5	2476.8	2160.6	1786.8	1421.2	1097.6	889.0	778.4	706.9	705.4
15°	2768.7	2699.4	2417.1	1969.6	1456.6	1018.0	706.9	548.4	476.9	454.1	451.1
17.5°	2837.3	2738.5	2339.7	1734.5	1110.9	674.5	461.5	415.7	412.8	410.6	410.6
20°	2923.5	2784.9	2240.2	1465.4	788.0	450.4	392.2	395.1	396.6	393.6	394.4
22.5°	3023.8	2832.1	2121.5	1176.5	533.0	376.7	375.2	378.9	380.4	378.9	379.6
25°	3140.2	2886.6	1977.0	873.5	384.8	357.5	361.2	366.4	370.0	370.0	370.0
27.5°	3284.7	2953.0	1803.0	609.6	332.5	337.6	347.9	357.5	362.7	364.1	364.1
30°	3472.7	3035.6	1594.4	418.0	302.2	311.1	330.2	348.7	358.3	359.7	360.5
32.5°	3710.0	3128.4	1352.7	308.9	276.4	283.1	303.7	334.7	353.1	356.0	356.0
35°	3982.0	3236.1	1092.4	269.1	258.0	260.2	276.4	311.8	344.2	352.4	353.1
37.5°	4279.8	3342.2	830.8	251.4	242.5	242.5	254.3	284.5	322.9	347.9	350.9
40°	4557.8	3406.3	582.3	237.4	228.5	228.5	238.8	260.9	297.1	334.7	342.8
42.5°	4814.3	3428.4	405.4	224.1	215.2	217.5	226.3	244.0	271.3	308.9	316.2
45°	5078.2	3424.8	295.6	208.6	202.0	208.6	215.2	228.5	248.4	269.8	271.3
47.5°	5277.2	3393.8	234.4	193.9	189.4	198.3	204.2	213.0	224.1	222.6	222.6
50°	5463.7	3318.6	188.7	174.0	176.9	187.2	190.2	193.1	193.9	179.9	178.4
52.5°	5605.2	3201.4	151.1	152.6	164.4	174.7	171.8	167.3	160.0	143.0	140.1
55°	5652.4	2975.8	118.7	126.1	146.0	159.2	148.2	138.6	124.6	110.6	107.6
57.5°	5566.9	2684.7	96.6	98.0	123.1	134.2	121.6	110.6	95.1	83.3	81.1
60°	5385.6	2361.1	79.6	73.7	95.1	104.7	96.6	85.5	71.5	62.7	61.9
62.5°	5025.8	2016.1	65.6	57.5	72.2	80.3	75.2	67.1	55.3	49.4	48.7
65°	4269.5	1612.9	53.1	46.4	56.0	62.7	58.2	52.3	43.5	39.1	38.3
67.5°	2980.3	1090.2	43.5	38.3	44.2	49.4	45.7	42.8	34.6	33.9	34.6
70°	1437.4	525.6	36.1	31.0	34.6	38.3	36.9	34.6	33.2	38.3	44.2
72.5°	412.1	176.2	28.7	25.8	28.0	30.2	31.7	31.0	36.1	46.4	53.8
73°	317.0	142.3	27.3	24.3	26.5	29.5	31.0	30.2	36.9	47.2	53.8
75°	135.6	68.6	20.6	19.9	22.1	25.8	27.3	27.3	36.9	47.9	51.6
77.5°	61.2	36.9	13.3	15.5	19.2	20.6	22.9	22.9	29.5	36.9	36.9
80°	34.6	19.9	10.3	11.8	14.0	14.0	14.0	12.5	13.3	14.7	16.2
82.5°	22.1	13.3	8.1	9.6	8.8	7.4	5.9	5.9	5.2	5.9	7.4
85°	12.5	7.4	7.4	5.9	3.7	2.9	3.7	2.9	0.7	0.0	0.7
87.5°	7.4	4.4	2.2	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)