

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: P319045

Luminaire Tested: **GAN-SA1C-740-U-T4W**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P319045  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA1C-740-U-T4W  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 4000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7354 lumens  
Efficiency: N/A  
Efficacy: 124.6 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

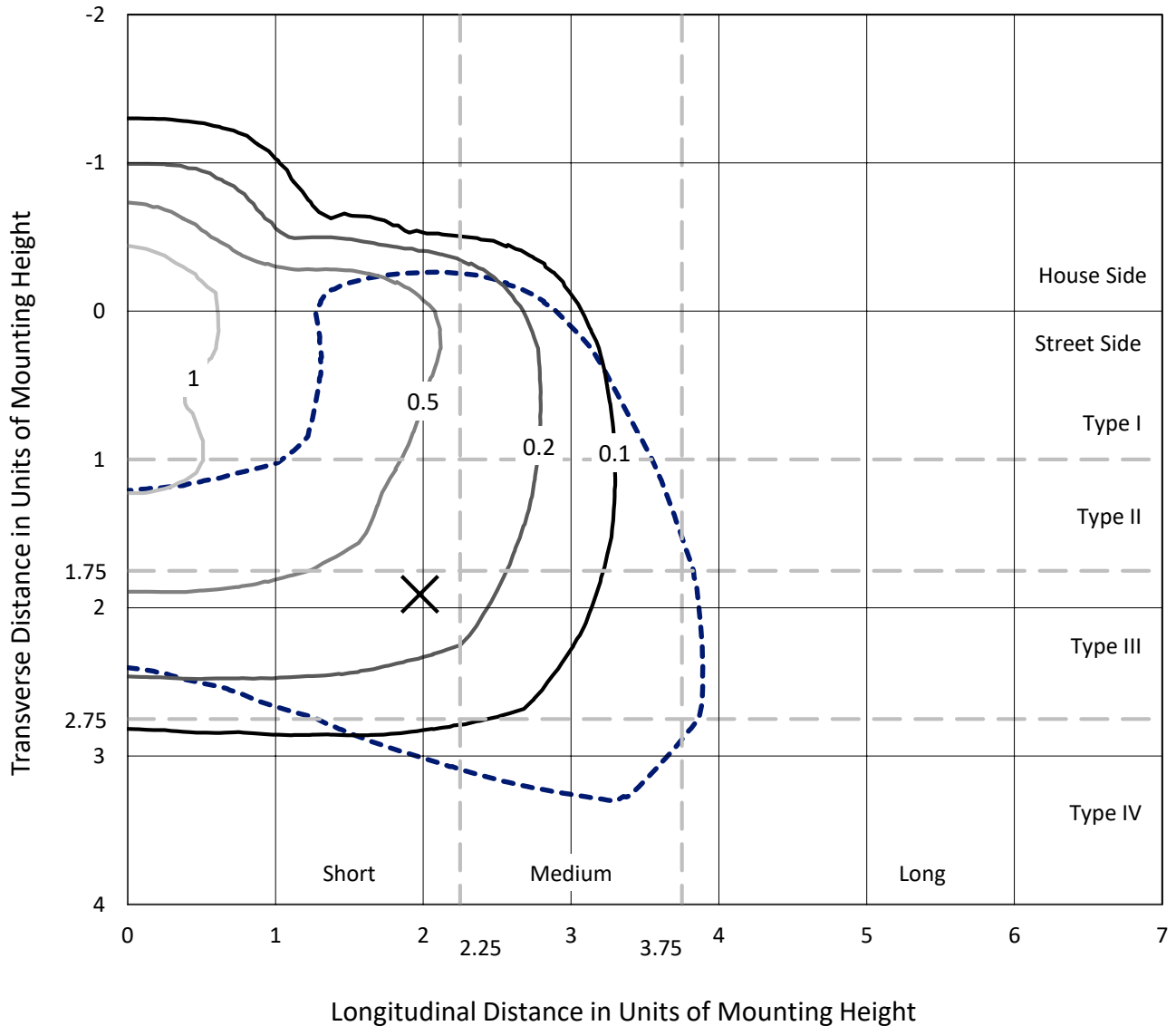
Input Watts (W): 59  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

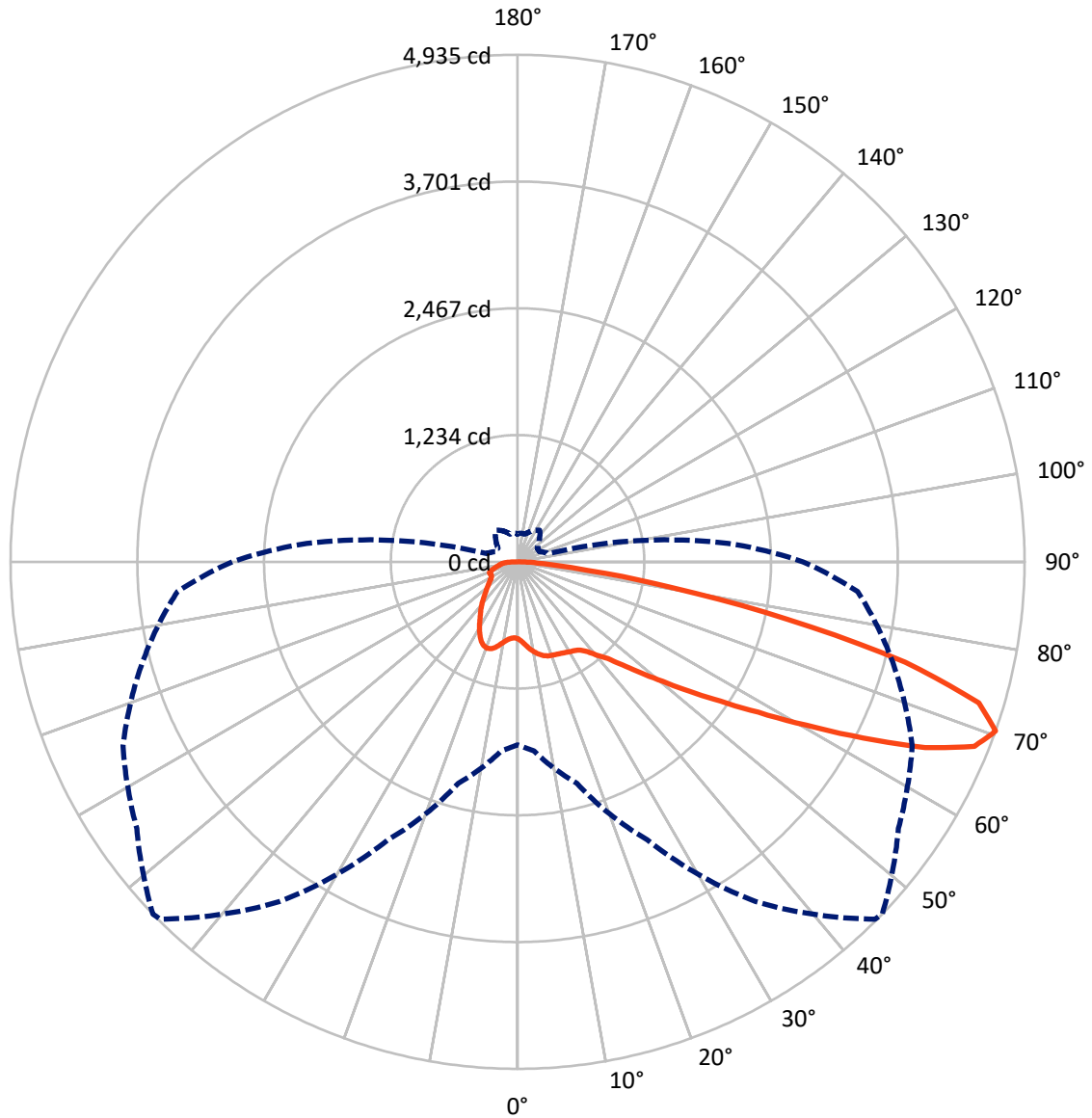
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1685.5	0.0	1685.5
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	5668.5	0.0	5668.5
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	7354.0	0.0	7354.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	76.4	1.0
10°-20°	254.5	3.5
20°-30°	424.3	5.8
30°-40°	602.1	8.2
40°-50°	885.7	12.0
50°-60°	1499.9	20.4
60°-70°	2129.0	29.0
70°-80°	1293.4	17.6
80°-90°	188.8	2.6
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°	7354.0	100.0
0°-180°	7354.0	100.0

**Coefficient of Utilization**

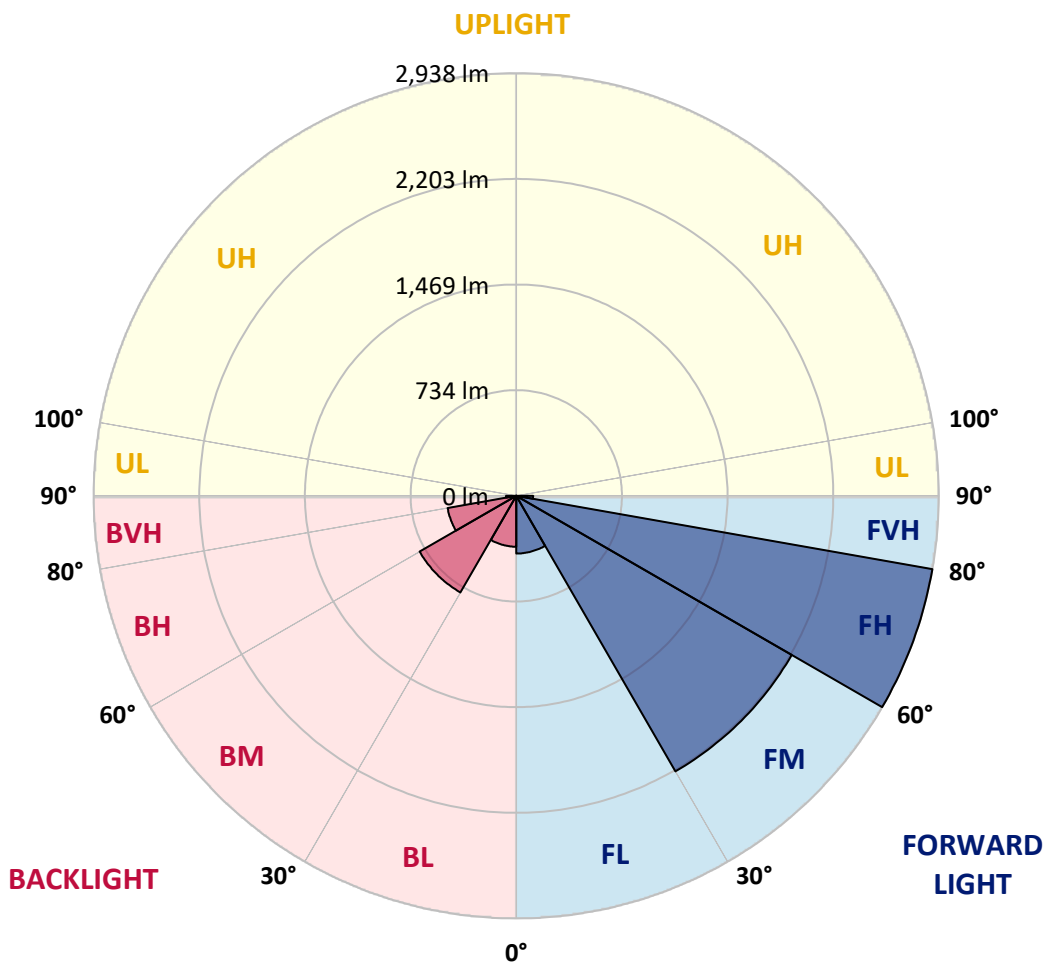


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	401.3	5.5			
FM (30°-60°)	2211.8	30.1			
FH (60°-80°)	2937.9	39.9			G2/5000
FVH (80°-90°)	117.6	1.6			G2/225
BL (0°-30°)	353.9	4.8	B1/500		
BM (30°-60°)	775.9	10.6	B1/1000		
BH (60°-80°)	484.6	6.6	B1/500		G1/500
BVH (80°-90°)	71.2	1.0			G1/100
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°	35°	45°	46°	55°	65°	75°	85°
0°	749.2	749.2	749.2	749.2	749.2	749.2	749.2	749.2	749.2	749.2	749.2
2.5°	786.7	787.2	788.2	785.7	778.7	776.7	775.9	768.6	763.8	756.8	750.7
5°	849.6	850.1	848.6	841.6	826.0	814.4	813.4	796.8	781.7	765.6	753.5
7.5°	915.3	916.1	911.3	898.0	876.1	855.9	854.7	832.0	809.1	784.7	766.6
10°	973.5	970.4	962.6	944.0	918.1	893.4	892.4	868.8	842.3	812.9	788.7
12.5°	1012.2	1009.7	999.6	977.0	948.6	925.9	923.9	902.0	876.3	844.1	815.2
15°	1033.6	1035.4	1021.8	996.1	968.4	949.3	947.5	931.9	909.0	876.6	843.4
17.5°	1036.4	1037.9	1024.8	999.4	976.7	963.7	962.9	952.6	936.0	904.8	870.0
20°	1020.3	1021.3	1010.5	989.6	974.7	970.7	970.4	965.9	953.6	925.9	892.2
22.5°	996.9	997.6	989.8	974.7	969.7	976.0	977.7	976.0	967.2	941.3	909.5
25°	991.1	990.6	982.5	967.2	971.5	984.8	987.1	987.8	981.8	959.1	931.7
27.5°	1019.0	1017.3	1001.9	977.2	980.0	996.1	999.1	1006.4	1002.7	982.8	956.9
30°	1099.8	1096.8	1065.3	1015.5	1001.9	1010.2	1014.0	1025.6	1026.3	1009.7	990.3
32.5°	1236.2	1232.4	1176.1	1087.0	1038.9	1024.6	1028.1	1045.4	1054.8	1041.9	1021.0
35°	1408.6	1404.3	1330.3	1208.5	1100.8	1052.0	1054.5	1068.3	1087.0	1068.9	1041.2
37.5°	1588.3	1578.0	1506.8	1351.5	1199.2	1110.6	1110.6	1112.4	1121.2	1083.4	1064.8
40°	1767.0	1756.7	1692.2	1519.6	1326.6	1203.0	1197.2	1158.2	1151.1	1118.7	1112.4
42.5°	1933.1	1930.1	1892.1	1709.6	1476.1	1293.8	1285.8	1219.6	1221.1	1201.0	1201.2
45°	2109.8	2109.8	2078.8	1901.4	1650.2	1439.8	1431.8	1334.4	1349.5	1340.2	1362.6
47.5°	2254.0	2258.5	2254.2	2101.2	1852.8	1625.3	1610.7	1493.4	1535.7	1567.7	1632.9
50°	2401.2	2408.3	2409.0	2320.4	2097.7	1845.8	1829.2	1704.6	1799.0	1890.6	2018.7
52.5°	2614.9	2630.7	2567.6	2539.1	2397.7	2107.5	2091.1	1976.1	2133.7	2262.3	2483.0
55°	2812.9	2799.1	2754.1	2771.7	2718.8	2405.5	2393.2	2292.2	2506.7	2673.8	2960.4
57.5°	2920.2	2919.1	2964.4	3040.0	3065.1	2772.9	2762.6	2664.5	2927.2	3052.8	3408.7
60°	3046.0	3047.8	3160.0	3331.4	3435.1	3230.5	3225.9	3151.4	3335.7	3406.6	3760.2
62.5°	3063.6	3095.3	3288.6	3583.6	3781.4	3765.0	3775.1	3590.1	3701.1	3689.0	4022.7
65°	2861.0	2902.8	3252.6	3659.8	4125.7	4349.7	4359.0	4031.3	3989.3	3930.4	4116.6
67.5°	2445.8	2507.7	2887.7	3494.0	4239.2	4781.8	4794.9	4373.3	4228.3	4012.2	3890.6
70°	1779.8	1848.5	2231.1	2984.1	4036.8	4919.9	4934.8	4524.6	4237.4	3779.4	3321.3
72.5°	1075.1	1129.0	1444.3	2196.8	3407.1	4668.3	4694.7	4332.8	3868.7	3201.3	2452.5
75°	472.1	507.4	698.4	1265.9	2439.2	3862.4	3895.4	3708.6	3143.4	2326.5	1449.6
77.5°	201.1	211.2	286.4	549.9	1378.9	2639.3	2684.6	2709.8	2132.7	1265.9	612.6
80°	125.3	129.4	162.1	248.9	645.3	1482.4	1531.2	1594.3	1059.0	465.3	213.9
82.5°	76.3	80.8	107.7	150.5	336.0	672.0	695.4	739.9	411.0	201.1	110.7
85°	45.8	49.1	65.9	95.1	191.3	264.3	264.0	291.9	193.5	129.4	58.4
87.5°	21.9	24.4	35.2	49.3	96.4	99.2	92.9	105.2	117.5	84.8	29.4
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°	749.2	749.2	749.2	749.2	749.2	749.2	749.2	749.2	749.2	749.2	749.2
2.5°	748.7	747.7	744.4	741.9	741.4	739.9	738.7	739.4	740.4	740.7	740.7
5°	748.5	745.7	741.4	739.7	741.9	745.0	748.7	753.8	756.8	759.0	760.6
7.5°	760.6	755.3	750.5	749.5	754.0	762.1	770.6	781.2	788.5	793.5	794.5
10°	780.7	774.1	769.4	770.4	778.4	790.0	802.1	815.7	826.7	833.5	834.0
12.5°	803.8	797.5	793.0	797.3	810.6	824.7	837.3	849.1	859.2	866.0	866.0
15°	830.5	826.0	820.7	830.5	848.6	861.2	866.5	872.3	877.8	882.9	881.9
17.5°	856.2	851.9	849.1	860.7	879.6	885.4	881.9	877.6	877.6	880.3	880.9
20°	878.3	874.6	876.3	887.6	897.5	891.4	878.3	864.7	859.2	860.7	862.2
22.5°	897.7	896.0	901.2	906.5	899.5	878.3	854.2	835.8	829.0	828.5	829.0
25°	920.4	920.1	926.7	917.1	885.9	846.9	814.4	796.5	792.8	795.8	800.8
27.5°	948.6	951.3	954.6	919.6	858.2	799.3	766.3	754.0	757.8	765.1	769.9
30°	984.5	992.1	985.0	913.3	818.4	745.0	713.5	710.0	720.3	730.6	735.6
32.5°	1019.5	1031.4	1014.2	897.0	767.1	687.3	662.9	661.9	674.5	684.5	691.6
35°	1047.7	1071.1	1036.1	864.5	707.7	634.2	616.3	609.6	614.1	625.9	634.0
37.5°	1084.5	1123.5	1051.2	814.9	643.3	590.4	569.5	553.9	549.9	554.7	558.7
40°	1151.7	1203.2	1058.3	745.7	580.4	546.6	525.5	502.6	486.7	475.2	475.4
42.5°	1261.4	1307.2	1053.8	661.6	522.2	503.8	479.9	453.5	427.8	401.7	399.7
45°	1439.6	1461.7	1040.2	572.6	471.1	459.1	436.7	410.2	376.0	346.3	343.5
47.5°	1724.7	1675.6	1019.0	494.8	426.1	421.0	400.4	370.0	333.7	309.8	307.8
50°	2113.5	1984.4	1008.7	432.9	386.3	387.8	371.0	338.8	304.5	286.9	284.9
52.5°	2578.6	2344.1	1028.6	385.1	354.4	359.6	347.1	316.9	288.2	274.3	272.3
55°	3061.1	2716.6	1050.0	350.3	324.2	334.5	330.2	305.3	279.4	266.5	264.8
57.5°	3474.1	2994.6	1007.2	322.1	297.2	313.3	317.1	298.0	274.8	263.2	261.2
60°	3734.1	3106.6	894.9	295.7	275.8	296.5	309.6	296.0	276.6	275.6	274.1
62.5°	3857.4	3096.8	726.6	274.8	262.5	289.2	315.1	307.3	296.7	305.8	306.5
65°	3802.0	2948.8	541.1	261.0	252.9	291.9	331.7	328.7	302.5	311.6	312.8
67.5°	3437.6	2595.7	400.7	248.9	242.4	299.7	361.9	335.7	291.2	297.7	293.7
70°	2778.5	2057.9	309.1	235.3	231.5	298.7	375.5	331.5	278.9	280.4	269.5
72.5°	1916.0	1403.3	251.4	222.7	215.9	272.3	365.9	320.9	268.5	257.0	242.6
75°	1041.9	753.3	213.7	209.6	188.5	239.1	348.3	313.3	259.2	243.9	235.8
77.5°	410.0	312.6	185.5	191.8	164.8	211.2	328.7	299.0	246.4	226.3	222.2
80°	167.4	159.6	153.8	165.9	141.7	184.7	305.0	282.1	231.0	209.9	201.8
82.5°	94.9	99.2	119.5	130.9	115.0	170.1	293.7	268.5	212.7	188.0	178.4
85°	48.6	58.1	83.3	93.9	84.6	144.7	270.5	235.1	170.6	144.0	144.7
87.5°	23.4	32.5	52.6	58.9	54.9	104.7	202.1	170.4	132.9	105.2	101.9
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)