

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: P190969

Luminaire Tested: **GAN-AF-01-LED-U-AFL**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P190969  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24165)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-AF-01-LED-U-AFL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 4000K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6540.8 lumens  
Efficiency: N/A  
Efficacy: 110.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short - Full Cutoff  
BUG Rating: B1 - U0 - G1

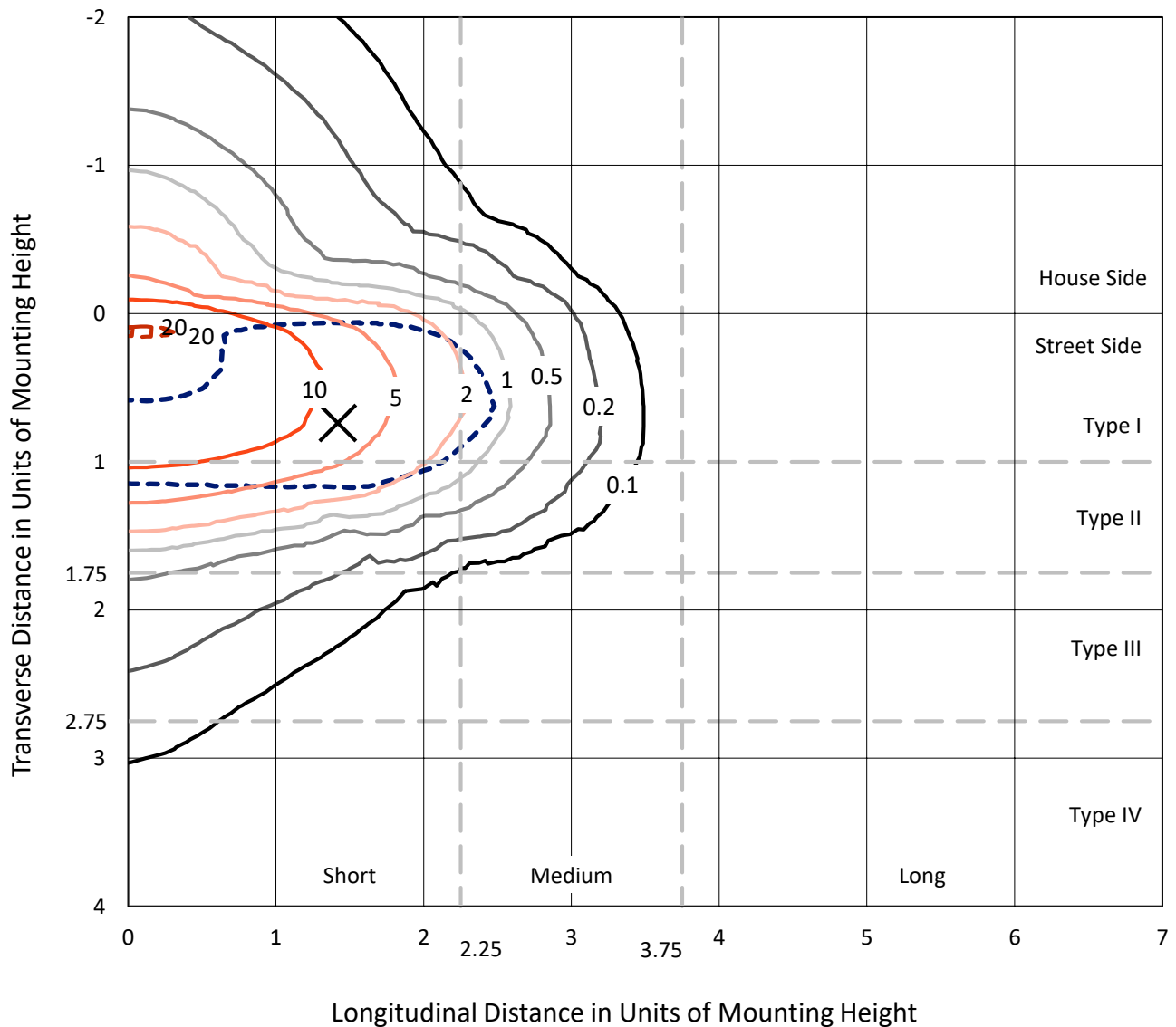
Input Watts (W): 59  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

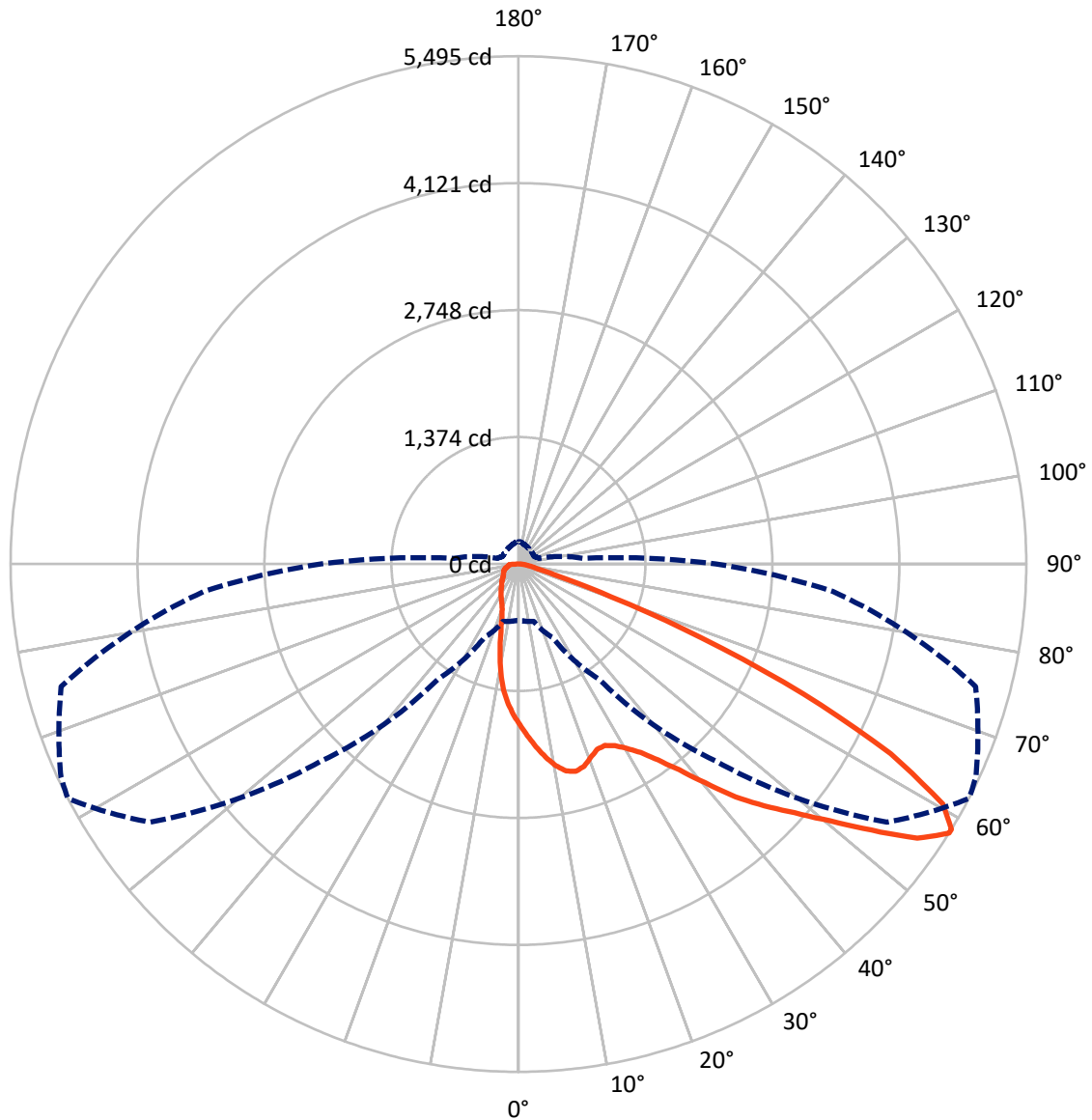


Based on 10 foot mounting height. Maximum calculated value = 21.2 fc  
 Type II - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 62.5-Deg Lateral    - - - Horizontal Cone Through 58-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	997.5	0.0	997.5
	% Fixture	15.3	0.0	15.3
<b>Street Side</b>	Lumens	5543.3	0.0	5543.3
	% Fixture	84.7	0.0	84.7
<b>Total</b>	Lumens	6540.8	0.0	6540.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	155.4	2.4
10°-20°	397.2	6.1
20°-30°	642.1	9.8
30°-40°	1019.3	15.6
40°-50°	1491.4	22.8
50°-60°	1559.9	23.8
60°-70°	921.6	14.1
70°-80°	259.6	4.0
80°-90°	94.3	1.4
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°	6540.8	100.0
0°-180°	6540.8	100.0



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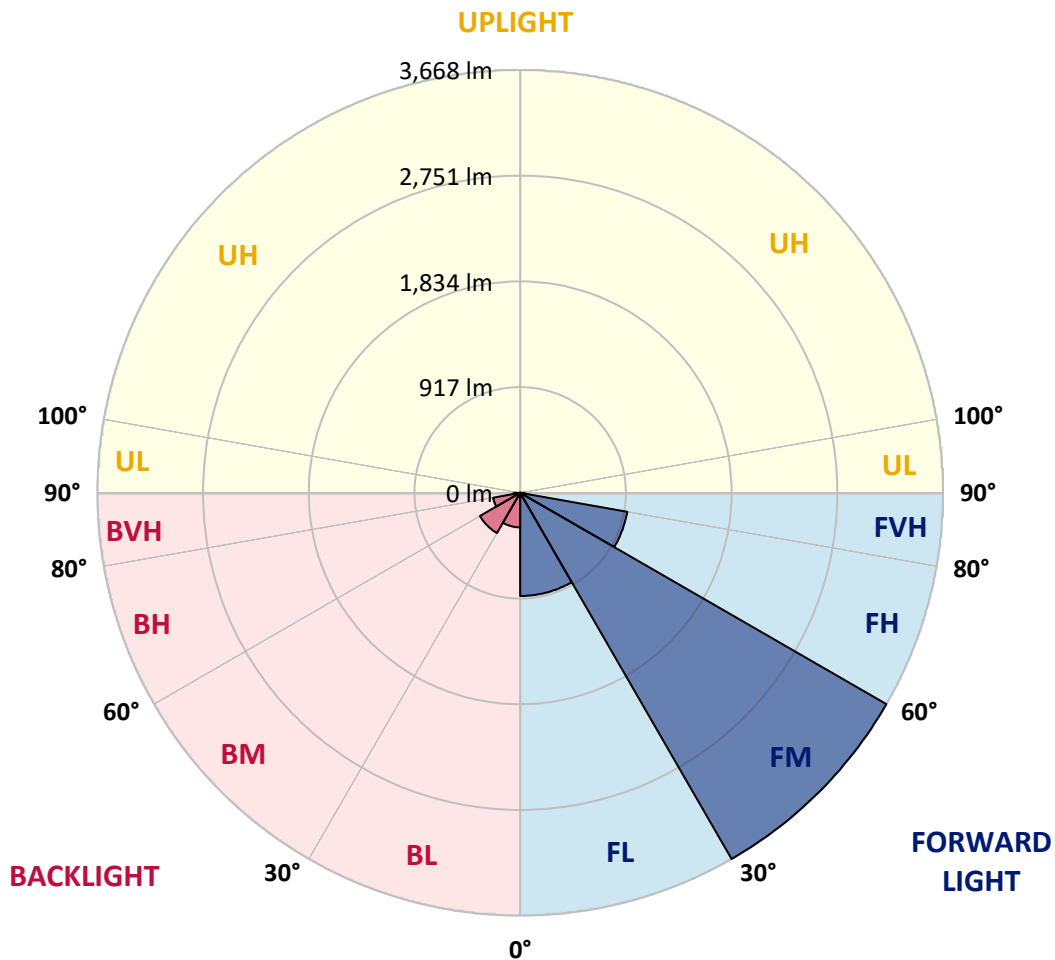
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	894.9	13.7			
FM (30°-60°)	3668.0	56.1			
FH (60°-80°)	943.2	14.4			G1/1800
FVH (80°-90°)	37.2	0.6			G1/100
BL (0°-30°)	299.8	4.6	B1/500		
BM (30°-60°)	402.6	6.2	B1/1000		
BH (60°-80°)	238.0	3.6	B1/500		G1/500
BVH (80°-90°)	57.1	0.9			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	1737.4	1737.4	1737.4	1737.4	1737.4	1737.4	1737.4	1737.4	1737.4	1737.4	1737.4
2.5°	1985.3	1969.4	1959.2	1950.3	1938.5	1913.6	1880.0	1858.8	1848.0	1811.3	1767.9
5°	2180.0	2165.8	2155.4	2143.4	2122.4	2083.3	2029.1	1986.0	1964.7	1891.4	1804.6
7.5°	2134.4	2140.3	2158.4	2190.1	2217.2	2212.0	2163.6	2108.8	2080.8	1978.9	1847.0
10°	1859.7	1869.9	1901.3	1975.5	2095.6	2218.8	2256.4	2218.5	2190.1	2065.4	1890.8
12.5°	1804.6	1804.3	1806.7	1826.5	1897.9	2071.3	2259.5	2297.6	2280.8	2148.0	1935.4
15°	1827.1	1827.7	1825.8	1834.2	1856.3	1925.0	2165.2	2328.1	2340.2	2231.2	1981.7
17.5°	1886.2	1884.7	1877.5	1877.5	1885.6	1912.4	2054.4	2299.8	2355.2	2304.7	2022.3
20°	1985.3	1978.3	1959.5	1942.3	1933.6	1948.1	2008.8	2234.5	2329.1	2369.2	2055.9
22.5°	2105.4	2099.9	2069.4	2032.5	2002.6	2002.3	2032.2	2177.6	2283.8	2429.8	2084.3
25°	2260.7	2251.8	2206.5	2147.4	2095.0	2075.0	2083.3	2174.8	2259.2	2495.7	2109.4
27.5°	2443.0	2426.7	2373.1	2287.8	2210.8	2170.5	2158.4	2225.0	2281.7	2577.3	2144.6
30°	2664.2	2645.4	2576.7	2465.5	2356.8	2290.6	2265.0	2314.0	2356.2	2676.9	2201.0
32.5°	2915.8	2888.7	2809.2	2686.7	2543.8	2442.7	2401.2	2431.7	2465.2	2796.6	2271.5
35°	3263.5	3231.2	3116.3	2947.2	2785.8	2646.9	2580.4	2602.6	2635.2	2975.3	2373.5
37.5°	3500.7	3486.2	3409.8	3250.9	3075.4	2915.5	2812.6	2825.6	2844.0	3198.6	2504.0
40°	3498.6	3504.4	3506.0	3507.5	3388.0	3234.9	3124.3	3110.8	3107.1	3443.8	2652.5
42.5°	3323.3	3347.3	3424.9	3582.4	3655.0	3584.8	3483.5	3444.4	3424.9	3732.6	2809.8
45°	3055.0	3067.9	3213.3	3520.7	3791.8	3931.3	3854.6	3731.4	3696.3	3998.1	2940.5
47.5°	2916.7	2931.0	3022.4	3357.5	3790.2	4211.3	4255.6	4020.9	3958.1	4229.1	3053.2
50°	2587.5	2617.0	2732.2	3073.6	3651.9	4340.0	4674.8	4365.9	4235.9	4453.9	3166.2
52.5°	1982.9	2028.5	2157.5	2606.6	3301.2	4276.2	5010.2	4784.1	4600.5	4686.9	3263.2
55°	1250.8	1284.6	1393.1	1840.9	2640.7	3944.5	5137.4	5236.6	5073.3	4907.3	3347.3
57.5°	680.1	695.2	735.8	1016.4	1717.7	3211.1	4952.0	5494.1	5426.3	5094.6	3410.7
58°	608.6	618.8	644.0	880.9	1523.4	3010.6	4869.8	5495.0	5461.1	5122.0	3415.7
60°	451.5	446.3	423.8	502.7	847.9	2079.9	4372.6	5275.1	5374.6	5155.6	3391.7
62.5°	396.7	384.1	338.2	333.0	412.5	958.2	3345.8	4518.7	4753.7	4964.0	3245.7
65°	372.7	359.2	300.0	280.9	297.6	405.3	1970.9	3388.9	3683.6	4383.1	2872.3
67.5°	354.9	337.3	275.7	249.5	250.7	267.9	790.0	2134.4	2466.1	3328.0	2234.2
70°	337.6	318.4	255.0	224.8	217.8	211.9	314.1	1068.5	1369.3	2102.1	1424.5
72.5°	319.1	300.3	236.8	205.4	191.6	172.2	205.1	437.0	610.5	994.5	646.2
75°	292.3	275.4	218.7	188.2	168.5	142.6	154.9	228.2	273.8	396.1	311.4
77.5°	259.3	245.5	198.4	174.0	149.4	115.8	119.2	158.4	175.5	226.7	185.2
80°	186.4	191.3	176.5	156.5	133.1	93.9	91.5	115.5	124.7	145.7	120.4
82.5°	130.9	133.7	146.0	127.9	110.0	74.0	67.4	81.3	86.8	95.7	65.0
85°	90.2	87.2	100.1	89.0	79.5	49.3	46.2	55.1	58.5	59.4	33.6
87.5°	54.2	54.2	57.9	47.8	42.9	25.6	25.0	31.4	33.6	32.0	18.5
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°	1737.4	1737.4	1737.4	1737.4	1737.4	1737.4	1737.4	1737.4	1737.4	1737.4	1737.4
2.5°	1742.1	1720.2	1673.6	1636.4	1589.3	1540.3	1512.8	1483.6	1463.6	1449.1	1472.2
5°	1755.3	1710.6	1614.5	1523.4	1422.6	1318.0	1238.5	1164.5	1113.1	1081.1	1111.2
7.5°	1776.3	1707.5	1554.5	1398.6	1217.8	1043.5	887.6	790.0	733.0	705.0	722.6
10°	1800.3	1702.6	1483.9	1229.5	970.8	751.3	634.7	595.4	582.5	577.1	579.6
12.5°	1820.2	1692.2	1397.4	1025.0	729.1	593.2	559.7	558.7	561.5	562.1	563.0
15°	1834.5	1676.7	1269.0	811.9	583.1	540.5	538.7	544.2	549.4	551.6	552.9
17.5°	1844.0	1645.0	1123.9	641.9	522.3	515.0	519.2	526.4	531.9	533.5	534.7
20°	1843.1	1598.5	951.1	535.3	489.4	489.4	496.8	502.4	502.7	500.8	501.8
22.5°	1833.5	1534.7	783.6	478.6	460.1	465.3	472.8	467.6	446.0	431.8	432.7
25°	1817.5	1458.7	640.1	442.6	433.0	442.3	440.2	400.7	369.9	356.1	356.1
27.5°	1803.4	1368.7	529.8	411.2	405.9	417.4	379.1	343.4	330.5	324.0	321.8
30°	1793.1	1271.7	456.1	380.9	380.3	372.0	329.0	319.1	316.9	311.7	309.9
32.5°	1795.6	1173.4	409.0	354.6	356.7	318.4	304.9	307.1	305.2	299.7	297.2
35°	1815.9	1080.1	378.2	330.5	324.0	287.7	290.7	294.7	294.1	286.4	284.0
37.5°	1852.3	991.8	357.9	310.5	282.7	272.3	277.2	283.4	281.8	276.6	274.8
40°	1890.5	908.6	341.3	294.7	258.4	261.8	266.1	269.5	271.1	272.6	271.4
42.5°	1927.8	821.7	320.9	278.8	248.3	252.0	253.8	257.2	265.5	271.4	271.1
45°	1949.9	740.1	300.0	255.9	240.2	242.4	241.2	248.0	258.1	267.6	267.9
47.5°	1974.6	676.7	283.4	235.0	232.5	234.1	230.4	237.1	246.4	258.1	259.3
50°	2004.5	638.8	270.2	218.4	222.1	222.1	221.2	227.3	240.2	253.8	256.2
52.5°	2038.3	631.4	259.0	206.3	211.5	211.2	212.2	221.5	235.6	248.9	251.0
55°	2079.6	651.4	247.0	197.4	201.4	202.6	205.7	216.3	228.2	243.4	244.3
57.5°	2127.6	692.0	237.4	190.4	192.2	196.2	201.1	210.6	223.6	240.2	241.2
58°	2135.6	700.7	235.9	189.8	190.4	195.0	200.5	209.7	222.7	240.9	241.8
60°	2135.9	729.4	232.5	187.0	183.2	191.0	197.1	206.3	221.2	243.1	245.2
62.5°	2060.2	729.1	230.1	182.9	175.8	185.5	192.5	203.3	219.6	248.3	252.6
65°	1814.1	662.5	218.4	176.8	170.0	180.4	188.5	201.1	223.9	271.1	273.8
67.5°	1418.9	543.0	196.5	168.2	162.3	175.5	186.1	200.8	228.5	276.3	278.1
70°	938.1	406.2	172.5	158.4	154.3	169.7	187.3	211.2	223.3	265.1	260.2
72.5°	486.9	285.2	153.0	146.0	145.1	164.5	205.1	210.0	218.1	249.5	243.4
75°	255.6	198.0	136.2	132.5	134.0	163.3	242.1	204.5	211.2	238.7	250.4
77.5°	156.5	159.9	121.6	120.1	123.2	159.6	241.8	197.4	201.4	219.6	232.5
80°	104.8	129.7	110.6	110.9	113.0	146.0	217.2	186.4	189.5	207.6	220.9
82.5°	66.2	76.7	100.5	105.7	102.9	120.4	184.5	169.7	174.0	237.4	251.0
85°	33.6	48.1	87.2	101.7	92.7	84.4	149.7	148.7	150.9	171.2	178.9
87.5°	15.4	26.5	68.0	88.7	69.9	52.7	108.7	110.3	118.9	121.6	121.6
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)