

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: P320975

Luminaire Tested: **GAN-SA1D-740-U-AFL**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P320975  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-29)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA1D-740-U-AFL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 4000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND AUTOMOTIVE FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8335 lumens  
Efficiency: N/A  
Efficacy: 124.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

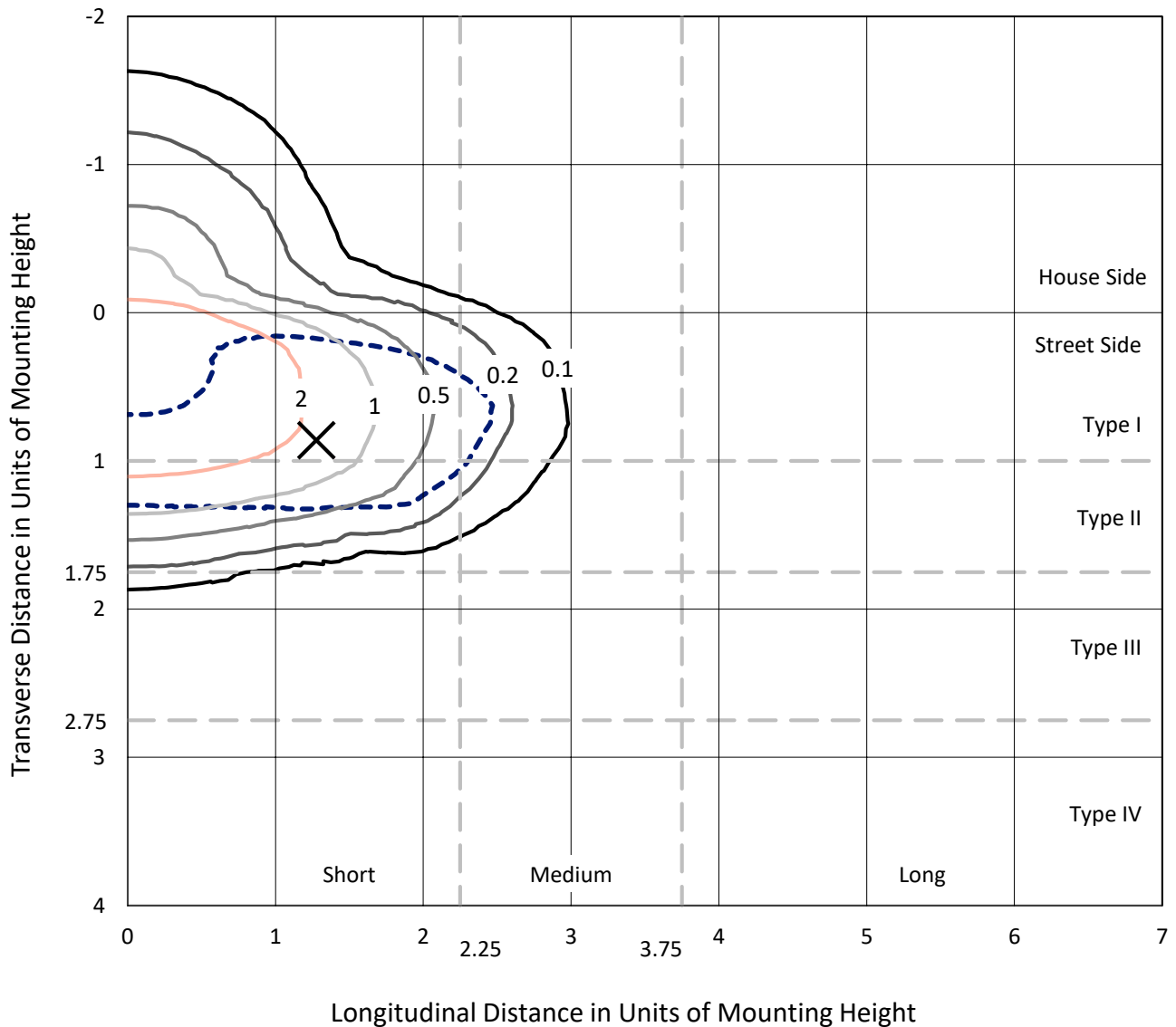
Input Watts (W): 67  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

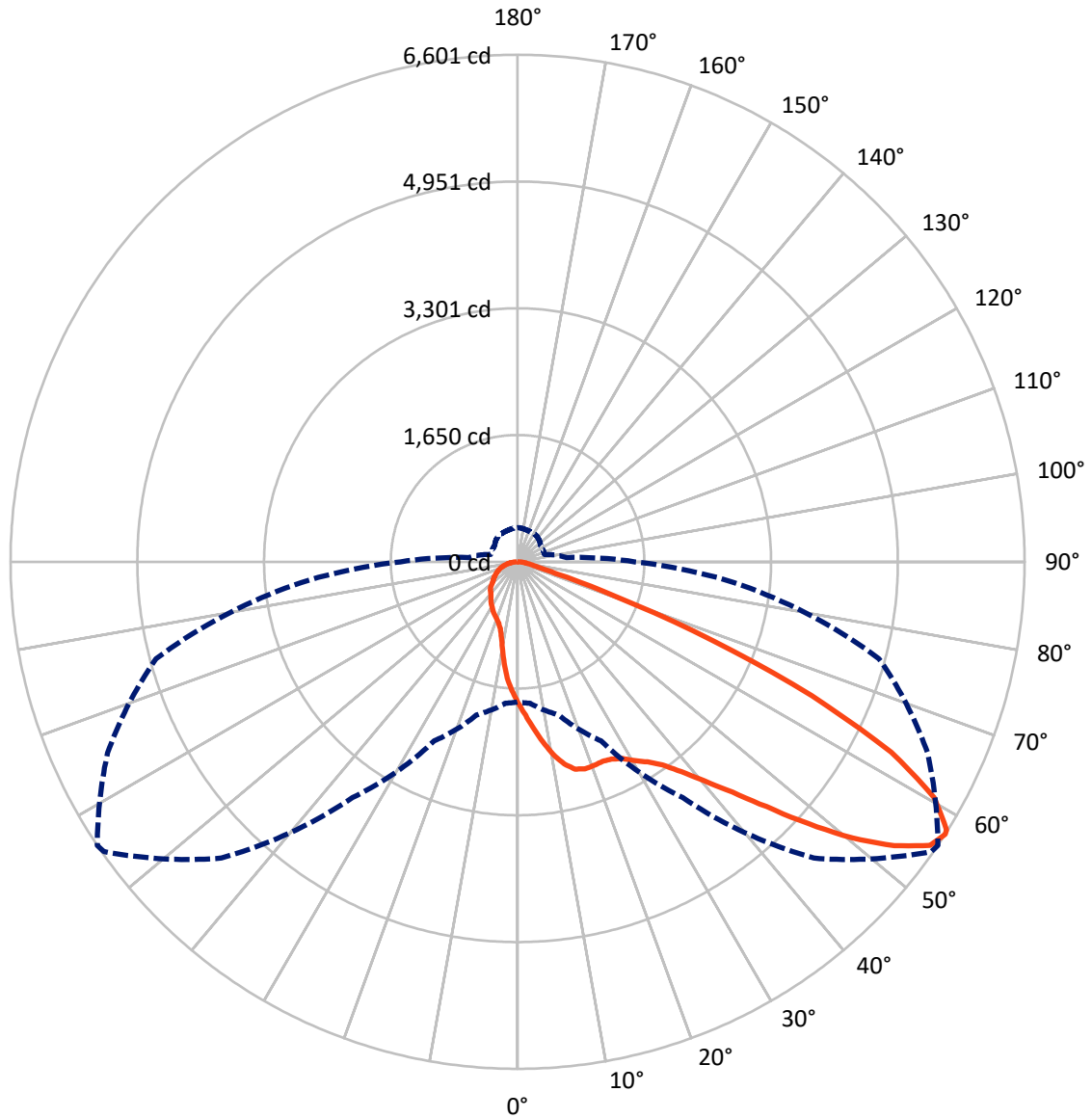
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral      - - - Horizontal Cone Through 57-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1436.8	0.0	1436.8
	% Fixture	17.2	0.0	17.2
<b>Street Side</b>	Lumens	6898.2	0.0	6898.2
	% Fixture	82.8	0.0	82.8
<b>Total</b>	Lumens	8335.0	0.0	8335.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	176.6	2.1
10°-20°	499.3	6.0
20°-30°	813.2	9.8
30°-40°	1215.7	14.6
40°-50°	1844.0	22.1
50°-60°	2066.8	24.8
60°-70°	1220.7	14.6
70°-80°	400.0	4.8
80°-90°	98.8	1.2
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°	8335.0	100.0
0°-180°	8335.0	100.0

**Coefficient of Utilization**



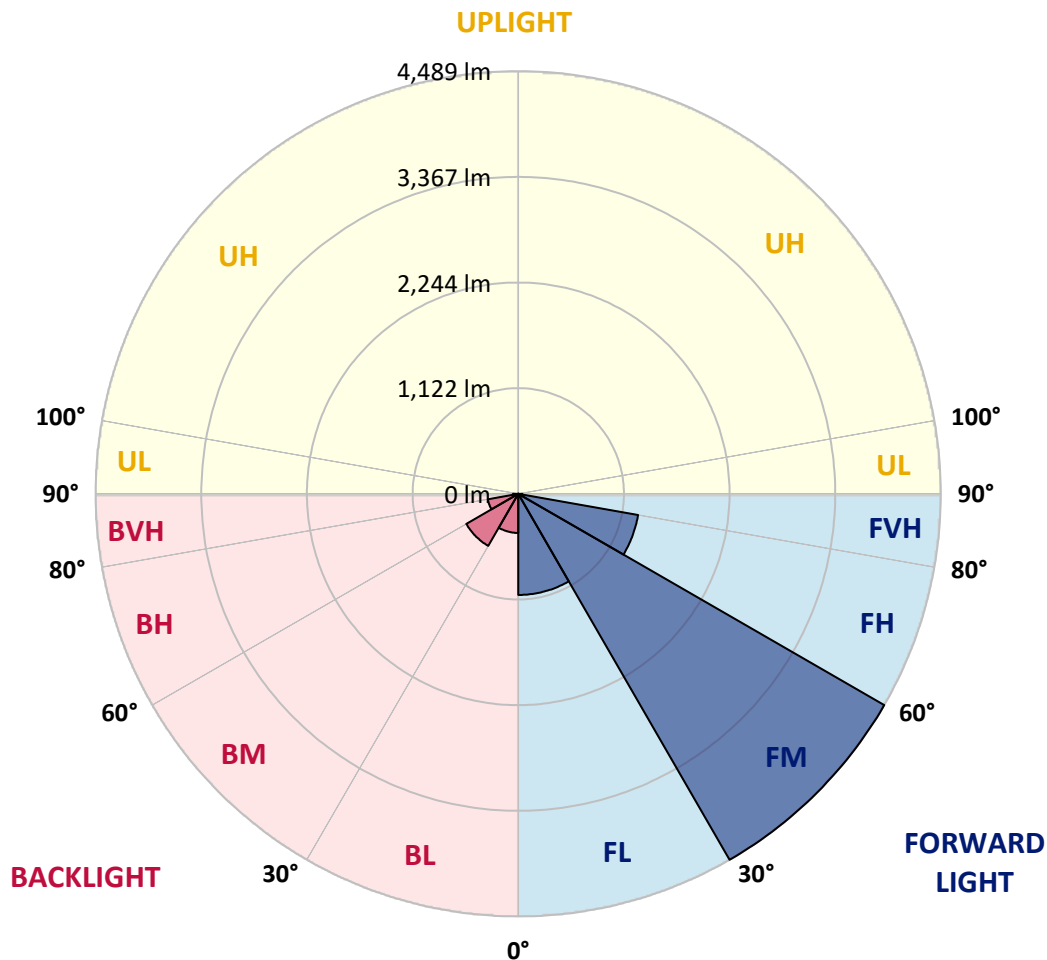
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 CATALOG NUMBER: GAN-SA1D-740-U-AFL

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1073.7	12.9			
FM (30°-60°)	4488.7	53.9			
FH (60°-80°)	1292.4	15.5			G1/1800
FVH (80°-90°)	43.5	0.5			G1/100
BL (0°-30°)	415.4	5.0	B1/500		
BM (30°-60°)	637.7	7.7	B1/1000		
BH (60°-80°)	328.3	3.9	B1/500		G1/500
BVH (80°-90°)	55.3	0.7			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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CATALOG NUMBER: GAN-SA1D-740-U-AFL

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1848.7	1848.7	1848.7	1848.7	1848.7	1848.7	1848.7	1848.7	1848.7	1848.7	1848.7
2.5°	2122.8	2142.3	2133.7	2103.9	2081.0	2048.6	2012.6	2001.7	1963.6	1920.9	1869.6
5°	2458.8	2449.1	2435.1	2388.7	2339.7	2282.7	2192.2	2177.8	2093.0	1996.5	1894.5
7.5°	2650.2	2649.3	2641.0	2613.8	2569.1	2494.6	2385.5	2368.6	2240.6	2085.3	1927.2
10°	2622.4	2620.4	2634.1	2662.5	2676.0	2660.5	2568.5	2551.6	2394.4	2183.6	1965.0
12.5°	2464.6	2465.7	2487.8	2547.3	2628.4	2725.8	2710.9	2702.6	2553.9	2294.7	2010.8
15°	2341.7	2344.3	2361.7	2413.6	2509.3	2686.0	2797.4	2800.3	2708.3	2417.3	2064.4
17.5°	2287.8	2293.3	2301.3	2337.7	2425.3	2606.6	2818.0	2833.5	2843.5	2544.5	2116.0
20°	2305.0	2310.2	2312.5	2335.7	2407.6	2558.5	2803.7	2831.5	2947.2	2664.2	2167.5
22.5°	2382.1	2385.2	2386.7	2392.7	2448.5	2572.3	2794.3	2823.5	3022.3	2771.6	2206.5
25°	2509.8	2507.5	2498.4	2490.6	2528.2	2626.7	2816.0	2843.8	3083.3	2869.0	2232.0
27.5°	2662.8	2659.9	2642.2	2621.0	2642.4	2711.5	2878.8	2900.8	3138.0	2960.1	2244.9
30°	2846.4	2838.9	2805.4	2780.2	2788.5	2838.7	2982.2	3002.2	3222.5	3063.5	2257.5
32.5°	3058.7	3050.6	3002.2	2960.4	2960.4	3002.2	3088.7	3105.3	3294.1	3180.4	2277.8
35°	3324.5	3314.4	3251.4	3181.2	3161.5	3182.7	3234.0	3245.7	3423.0	3327.6	2314.8
37.5°	3637.8	3624.4	3542.7	3448.8	3405.5	3404.4	3441.3	3465.4	3629.0	3521.0	2377.5
40°	3952.1	3942.6	3871.3	3797.4	3712.6	3685.4	3742.4	3749.8	3898.2	3761.0	2457.7
42.5°	4195.0	4193.3	4180.1	4189.8	4103.0	4048.0	4092.7	4098.7	4227.1	4020.8	2543.1
45°	4323.3	4326.2	4390.0	4531.5	4563.6	4523.5	4545.6	4547.3	4602.9	4282.9	2621.3
47.5°	4220.5	4235.4	4396.9	4713.4	4976.1	5109.3	5072.6	5093.8	4967.2	4508.1	2682.5
50°	3819.7	3838.1	4113.1	4632.4	5168.6	5676.2	5657.0	5652.1	5261.1	4673.0	2715.8
52.5°	3323.3	3337.6	3564.5	4211.0	5027.4	5989.5	6165.7	6140.5	5522.4	4796.5	2722.1
55°	2567.4	2589.7	2807.2	3370.0	4456.2	5869.8	6539.8	6517.2	5760.4	4861.2	2714.6
57°	1825.2	1848.7	2064.7	2572.0	3748.7	5455.3	6577.0	6601.1	5889.0	4872.1	2722.9
57.5°	1628.7	1652.8	1866.8	2359.4	3528.1	5305.5	6545.0	6585.1	5912.2	4870.4	2727.5
60°	820.1	829.3	965.6	1317.1	2230.3	4289.2	6126.5	6229.9	5933.1	4786.2	2747.3
62.5°	509.9	503.3	499.0	606.7	1085.1	2844.4	5262.8	5461.9	5533.0	4582.2	2699.4
65°	448.3	436.0	388.7	380.1	479.2	1381.5	3963.2	4211.0	4677.9	4260.9	2585.4
67.5°	421.1	409.0	355.8	323.7	324.0	547.7	2460.6	2739.6	3644.1	3717.5	2316.5
70°	393.0	382.1	332.3	294.5	275.8	303.3	1132.0	1343.7	2375.5	2922.0	1936.1
72.5°	356.9	349.5	302.2	263.2	243.5	227.2	433.4	511.9	1375.2	1962.4	1344.6
75°	319.1	312.2	271.8	234.6	210.5	178.7	244.1	263.0	698.6	1004.0	662.0
77.5°	277.6	273.6	241.8	207.4	188.2	148.1	172.7	181.9	299.6	430.5	332.0
80°	220.8	228.6	211.4	184.8	167.0	118.6	122.3	128.3	174.4	210.3	188.5
82.5°	143.8	157.3	165.6	150.1	137.5	93.4	87.9	90.5	113.7	128.3	81.9
85°	59.9	67.3	108.8	98.3	91.4	68.2	59.0	60.2	70.5	73.0	33.5
87.5°	26.6	28.4	47.8	45.0	38.7	23.5	25.2	27.5	37.5	35.5	12.9
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°	1848.7	1848.7	1848.7	1848.7	1848.7	1848.7	1848.7	1848.7	1848.7	1848.7	1848.7
2.5°	1850.4	1826.4	1785.1	1739.6	1702.3	1672.5	1642.5	1621.8	1597.8	1584.9	1578.3
5°	1851.9	1804.6	1717.8	1628.7	1549.1	1476.3	1407.0	1353.7	1303.9	1277.0	1269.5
7.5°	1857.9	1786.8	1646.5	1499.8	1358.3	1229.1	1129.4	1067.0	1022.0	1002.0	996.3
10°	1862.7	1765.9	1558.3	1341.1	1148.6	1017.7	940.4	905.4	890.0	887.4	884.8
12.5°	1874.2	1744.4	1465.4	1175.6	985.7	895.1	868.2	865.9	870.2	876.5	876.5
15°	1892.3	1723.2	1359.5	1033.5	882.0	850.2	855.6	868.2	880.0	889.7	891.1
17.5°	1905.4	1697.2	1245.5	919.8	826.7	835.3	854.7	872.5	884.5	894.0	894.9
20°	1914.9	1656.8	1123.7	833.0	794.9	821.5	845.9	861.6	869.9	879.4	880.8
22.5°	1910.0	1602.7	1015.7	770.8	769.1	801.5	824.7	843.6	837.3	828.1	834.1
25°	1886.5	1528.2	904.6	724.4	741.9	774.5	803.2	790.6	769.4	765.4	767.7
27.5°	1844.7	1433.1	801.8	681.5	710.4	749.6	747.9	735.3	727.9	722.7	725.8
30°	1799.7	1330.0	711.8	643.9	675.4	707.8	701.2	700.9	693.5	685.2	689.2
32.5°	1755.3	1226.3	640.5	613.0	649.1	653.4	667.7	672.0	657.4	639.9	638.8
35°	1716.7	1128.3	586.4	584.9	617.3	617.9	638.8	632.8	596.4	578.3	578.3
37.5°	1687.7	1030.6	545.1	559.7	575.5	590.4	601.0	576.0	570.0	560.0	559.7
40°	1675.1	944.7	519.3	540.5	546.0	564.9	537.7	547.4	550.3	545.1	545.1
42.5°	1661.9	869.9	497.0	525.9	525.1	522.5	508.7	521.3	532.8	533.1	532.2
45°	1648.8	805.5	477.2	494.7	506.7	478.9	481.5	495.0	511.0	516.7	516.7
47.5°	1634.2	754.5	459.2	461.7	480.4	461.7	459.7	470.1	489.0	498.1	500.1
50°	1602.1	708.7	438.5	432.8	438.0	444.3	446.0	450.9	471.8	486.4	489.8
52.5°	1557.7	667.7	412.2	406.2	406.2	430.0	438.0	439.4	457.2	474.6	478.1
55°	1520.7	641.6	385.0	383.8	382.7	414.8	428.5	430.8	443.1	456.9	458.6
57°	1523.3	639.6	364.1	365.2	364.9	399.3	419.6	424.5	430.8	442.6	444.6
57.5°	1524.7	641.1	359.5	360.1	359.8	395.0	417.1	422.5	427.4	439.7	441.7
60°	1546.2	644.8	340.9	334.6	336.0	372.1	402.5	409.3	412.5	428.8	431.4
62.5°	1514.4	628.2	326.0	310.8	310.8	348.0	382.1	393.0	397.9	419.9	424.2
65°	1422.2	581.5	308.5	283.9	286.7	324.0	357.8	375.5	383.0	410.5	415.1
67.5°	1279.8	527.3	289.9	259.8	262.7	298.8	332.6	351.8	363.5	400.2	403.9
70°	1094.5	461.2	264.7	234.3	237.7	271.3	302.8	324.5	342.0	390.4	391.6
72.5°	806.9	378.1	229.4	206.2	210.0	239.2	272.7	297.9	321.4	366.1	365.5
75°	479.8	295.6	190.5	177.9	180.5	207.7	245.5	276.1	311.4	356.6	362.1
77.5°	291.0	222.6	155.3	149.0	152.1	179.9	226.0	258.7	307.1	336.3	334.6
80°	175.9	159.0	124.0	120.0	123.2	153.8	209.1	245.5	268.4	287.3	287.3
82.5°	91.9	97.1	91.1	87.9	92.2	124.9	190.2	214.3	237.2	203.7	190.2
85°	37.5	50.7	55.3	55.0	57.6	86.5	164.1	183.3	153.0	145.2	148.7
87.5°	12.6	21.5	26.9	23.2	24.3	54.4	113.7	88.5	105.1	73.3	69.6
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)