

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: P194031

Luminaire Tested: **GAN-AF-03-LED-U-T3R-8030-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194031
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P40129)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-03-LED-U-T3R-8030-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15161 lumens
Efficiency: N/A
Efficacy: 91.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B2 - U0 - G3

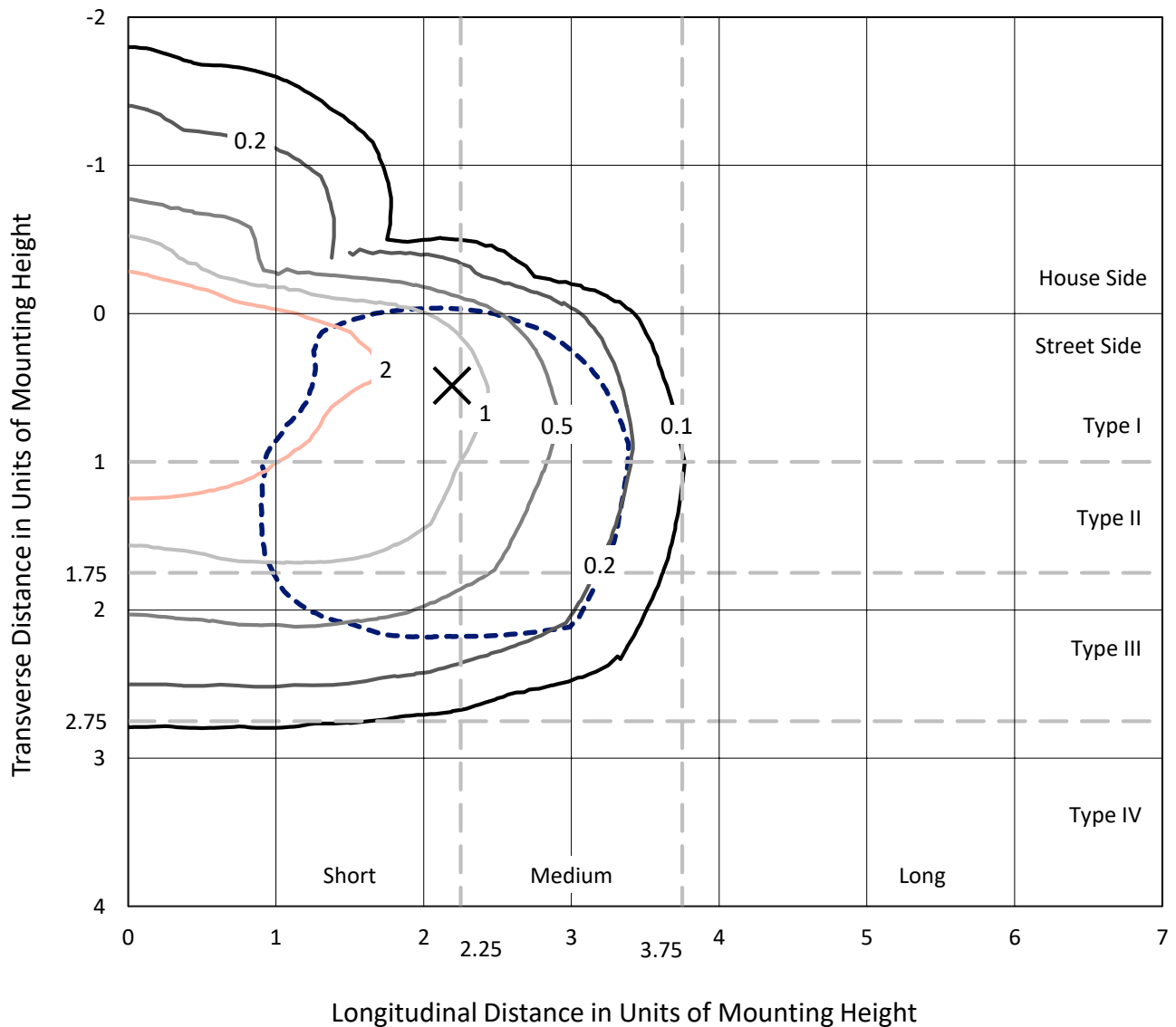
Input Watts (W): 166
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

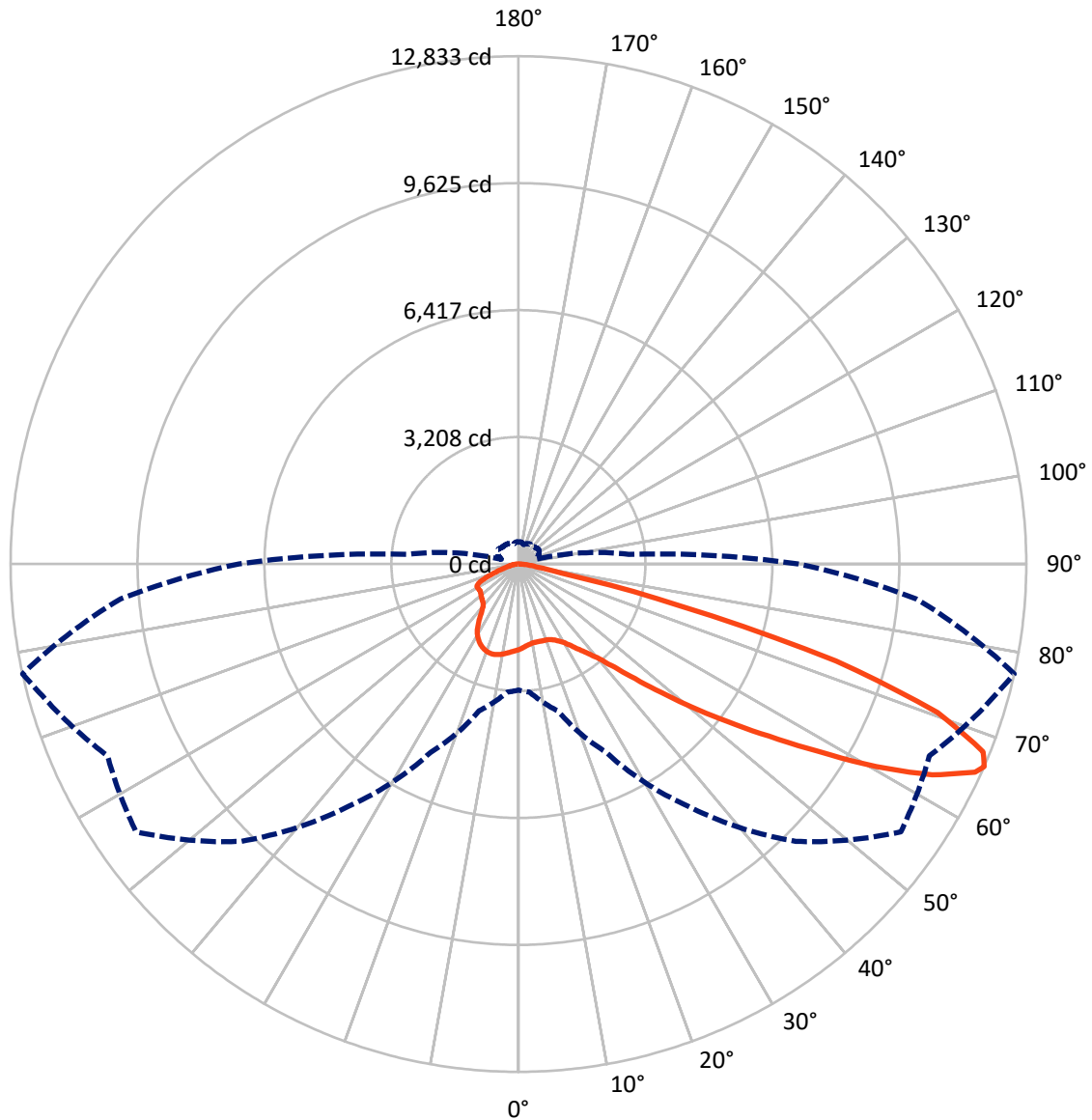


Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 77.5-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2590.2	0.0	2590.2
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	12570.8	0.0	12570.8
	% Fixture	82.9	0.0	82.9
Total	Lumens	15161.0	0.0	15161.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.0	1.3
10°-20°	544.6	3.6
20°-30°	929.4	6.1
30°-40°	1487.7	9.8
40°-50°	2298.4	15.2
50°-60°	3260.0	21.5
60°-70°	4360.9	28.8
70°-80°	1893.9	12.5
80°-90°	193.1	1.3
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°	15161.0	100.0
0°-180°	15161.0	100.0



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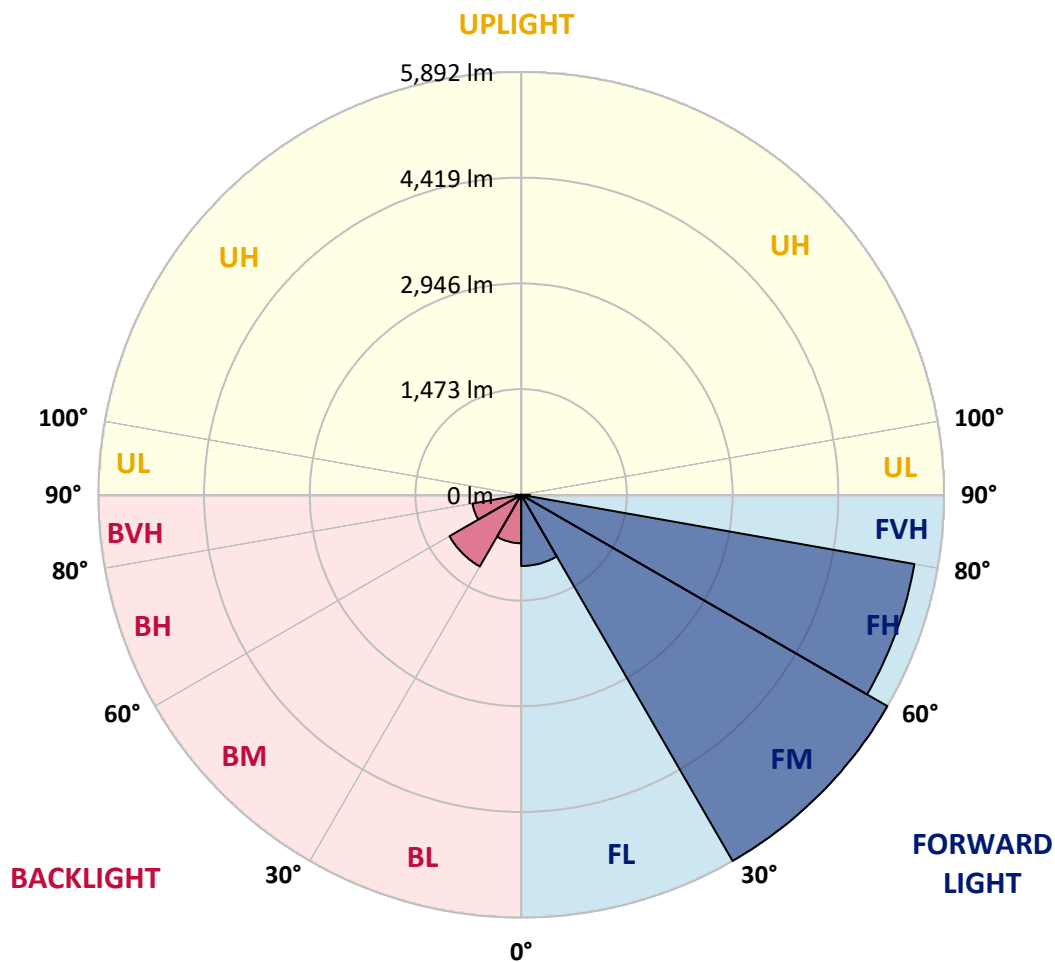
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	992.4	6.5			
FM	(30°-60°)	5892.4	38.9			
FH	(60°-80°)	5565.0	36.7			G3/7500
FVH	(80°-90°)	121.1	0.8			G2/225
BL	(0°-30°)	674.6	4.4	B2/1000		
BM	(30°-60°)	1153.8	7.6	B2/2500		
BH	(60°-80°)	689.8	4.5	B2/1000		G2/1000
BVH	(80°-90°)	72.0	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	2160.5	2160.5	2160.5	2160.5	2160.5	2160.5	2160.5	2160.5	2160.5	2160.5	2160.5
2.5°	1911.2	1924.1	1934.9	1944.9	1965.0	1997.9	2035.9	2066.7	2111.1	2119.7	2143.3
5°	1735.7	1735.7	1744.3	1759.4	1786.6	1836.0	1887.6	1956.4	2053.1	2076.0	2139.0
7.5°	1650.5	1651.2	1656.2	1669.1	1692.7	1737.9	1794.5	1875.4	2006.5	2044.5	2151.9
10°	1682.0	1674.8	1664.1	1657.6	1661.2	1687.7	1741.4	1831.7	1977.8	2026.6	2180.6
12.5°	1858.2	1844.6	1807.4	1757.9	1710.6	1691.3	1722.8	1810.9	1965.7	2022.3	2218.5
15°	2146.2	2140.5	2071.0	1968.5	1853.9	1757.9	1736.4	1803.1	1967.1	2027.3	2263.7
17.5°	2507.2	2499.3	2407.7	2258.7	2071.7	1884.7	1784.4	1809.5	1972.1	2035.9	2307.4
20°	2871.9	2847.5	2748.6	2571.0	2331.0	2057.4	1863.9	1826.0	1978.6	2045.2	2353.2
22.5°	3144.1	3124.0	3035.2	2862.5	2586.0	2257.2	1970.7	1854.6	1999.3	2072.4	2409.8
25°	3383.3	3384.8	3296.6	3129.7	2843.9	2469.3	2108.2	1931.3	2052.3	2128.3	2487.2
27.5°	3679.2	3662.0	3579.6	3414.1	3098.9	2683.5	2274.4	2036.6	2131.1	2207.8	2588.9
30°	4033.1	4020.9	3925.6	3737.9	3381.9	2913.4	2464.2	2159.1	2232.9	2312.4	2722.1
32.5°	4449.3	4443.5	4344.7	4103.3	3708.5	3184.2	2687.0	2321.0	2384.7	2467.1	2913.4
35°	4937.8	4938.5	4821.8	4531.6	4066.0	3499.4	2939.9	2529.4	2569.6	2655.5	3141.2
37.5°	5238.7	5275.2	5231.5	4935.7	4470.7	3851.8	3268.0	2805.9	2780.2	2866.8	3385.5
40°	5303.1	5347.6	5485.8	5335.4	4923.5	4240.1	3558.8	3071.7	3039.5	3145.5	3700.0
42.5°	5212.9	5274.5	5566.8	5672.8	5404.2	4718.6	3950.0	3466.4	3425.6	3568.1	4091.1
45°	5159.2	5205.0	5543.1	5848.3	5821.1	5259.4	4447.8	3962.1	3947.1	4134.1	4542.4
47.5°	5066.0	5107.6	5432.8	5889.1	6066.1	5755.2	5046.0	4568.2	4597.5	4842.5	5051.7
50°	5116.2	5133.4	5309.6	5785.3	6137.0	6118.4	5714.3	5270.2	5370.5	5676.4	5628.4
52.5°	5109.0	5153.4	5295.3	5614.8	6146.3	6342.6	6372.7	6053.2	6264.5	6615.5	6268.1
55°	4130.5	4212.1	5126.9	5571.8	6179.2	6562.5	6958.6	6878.4	7272.4	7681.4	6990.2
57.5°	3944.2	3995.8	4503.0	5662.0	6354.0	6982.3	7610.5	7786.7	8445.8	8920.7	7869.8
60°	3907.7	3971.4	4496.5	5772.4	6708.6	7666.4	8576.9	8886.3	9873.5	10393.5	8889.9
62.5°	3793.8	3862.6	4454.3	5758.0	7212.2	8612.7	9814.0	10055.4	11227.4	11733.1	9743.1
65°	3432.8	3497.2	4109.7	5526.6	7551.8	9622.7	11278.2	11127.1	12296.2	12676.5	10168.6
66°	3185.6	3248.7	3838.2	5254.4	7473.0	9909.3	11796.9	11458.8	12535.4	12833.4	10085.5
67.5°	2733.6	2783.0	3311.0	4644.8	7053.9	9989.5	12233.1	11708.0	12560.5	12665.8	9610.6
70°	1727.1	1741.4	2151.9	3206.4	5339.7	8663.5	11569.1	11089.1	11524.7	11239.5	8056.8
72.5°	749.3	744.3	1033.0	1631.1	3023.0	5813.2	9358.4	9150.0	9040.3	8389.9	5639.8
75°	416.9	422.6	536.5	757.2	1228.5	2855.4	6121.9	5858.3	4946.4	4220.7	2557.4
77.5°	334.5	342.4	444.9	537.3	551.6	995.7	2864.7	2331.0	1403.3	1126.1	710.6
80°	264.3	278.7	388.3	418.3	371.8	410.5	925.5	740.0	555.2	509.3	368.2
82.5°	209.2	219.2	333.1	316.6	260.0	276.5	443.4	432.0	361.0	328.8	212.8
85°	150.4	169.1	273.6	238.5	170.5	186.3	294.4	282.2	207.0	169.1	93.8
87.5°	61.6	80.2	193.4	158.3	95.3	86.7	146.9	138.3	98.1	71.6	46.6
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°	2160.5	2160.5	2160.5	2160.5	2160.5	2160.5	2160.5	2160.5	2160.5	2160.5	2160.5
2.5°	2158.4	2175.6	2197.8	2211.4	2218.5	2223.6	2231.4	2230.7	2232.9	2233.6	2236.4
5°	2172.7	2201.3	2233.6	2242.2	2242.2	2234.3	2226.4	2213.5	2208.5	2207.1	2208.5
7.5°	2209.9	2241.5	2269.4	2259.4	2237.9	2206.4	2165.5	2129.7	2110.4	2103.9	2102.5
10°	2257.2	2295.2	2306.7	2268.7	2205.6	2129.7	2048.8	1990.0	1956.4	1947.0	1944.2
12.5°	2314.5	2350.3	2334.6	2254.4	2137.6	2015.1	1903.3	1809.5	1739.3	1717.1	1715.7
15°	2377.6	2405.5	2350.3	2209.9	2035.9	1855.3	1656.2	1494.3	1406.9	1379.0	1376.8
17.5°	2436.3	2450.6	2341.0	2132.6	1886.2	1593.9	1329.5	1204.9	1174.8	1182.0	1183.4
20°	2486.5	2486.5	2309.5	2021.5	1650.5	1249.3	1082.4	1080.3	1101.7	1123.2	1127.5
22.5°	2541.6	2508.7	2254.4	1864.7	1316.7	1022.2	997.9	1017.9	1042.3	1065.9	1069.5
25°	2609.7	2526.6	2177.7	1626.8	1035.1	928.4	937.7	954.2	966.4	981.4	983.5
27.5°	2685.6	2549.5	2076.7	1299.5	898.3	869.7	876.8	882.5	881.1	886.8	888.3
30°	2776.6	2576.0	1938.4	1015.8	841.7	819.5	806.6	801.6	801.6	810.9	814.5
32.5°	2898.4	2615.4	1740.0	870.4	814.5	783.7	742.1	723.5	730.7	762.2	769.4
35°	3032.3	2657.7	1471.4	820.9	808.8	767.2	702.7	668.4	669.1	698.4	707.8
37.5°	3178.4	2711.4	1177.0	811.6	821.7	767.9	682.0	634.7	615.3	615.3	618.9
40°	3365.4	2766.5	952.7	818.1	848.9	776.5	671.2	608.2	553.7	555.2	558.0
42.5°	3609.0	2813.8	832.4	831.7	881.8	788.0	670.5	573.1	525.8	558.0	587.4
45°	3879.8	2837.5	779.4	843.9	908.3	795.1	659.0	567.3	529.4	625.4	681.2
47.5°	4191.4	2823.9	750.0	848.2	914.8	795.1	646.1	581.0	554.5	724.2	789.4
50°	4533.1	2784.5	721.4	839.6	912.6	793.7	658.3	594.6	563.8	741.4	786.6
52.5°	4934.9	2751.5	691.3	820.9	897.6	785.8	672.7	588.8	534.4	674.1	705.6
55°	5393.4	2760.8	657.6	794.4	873.9	770.8	667.6	565.9	503.6	593.9	613.2
57.5°	5979.4	2871.9	617.5	760.8	841.7	745.7	649.7	555.2	494.3	538.7	550.2
60°	6633.4	3065.3	567.3	727.1	801.6	705.6	636.1	560.2	498.6	534.4	540.1
62.5°	7113.4	3177.7	524.4	677.7	747.2	661.2	618.9	566.6	510.0	549.4	548.0
65°	7243.7	2992.9	470.6	605.3	673.4	614.6	597.4	573.8	515.1	561.6	555.2
66°	7061.1	2793.8	447.0	571.6	636.1	591.7	586.7	573.1	512.9	563.1	552.3
67.5°	6617.7	2385.4	406.2	522.2	576.7	557.3	569.5	566.6	507.2	561.6	546.6
70°	5397.0	1627.5	347.4	434.8	480.0	490.7	536.5	543.7	488.6	536.5	503.6
72.5°	3770.9	991.4	307.3	337.4	388.3	418.3	491.4	512.2	463.5	468.5	437.0
75°	1822.4	526.5	278.7	261.5	301.6	349.6	437.0	469.2	424.1	391.8	380.4
77.5°	568.1	321.6	236.4	210.6	236.4	282.2	365.3	411.2	377.5	328.1	323.8
80°	305.2	236.4	182.0	169.1	187.0	221.4	287.3	343.1	324.5	294.4	262.9
82.5°	201.3	153.3	134.7	131.1	142.6	169.1	213.5	284.4	284.4	252.2	183.4
85°	103.9	93.8	92.4	92.4	99.6	112.5	145.4	219.2	233.5	133.2	110.3
87.5°	51.6	53.7	50.1	52.3	55.9	55.2	69.5	110.3	131.8	80.9	67.3
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)