

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: P317605

Luminaire Tested: **GAN-SA1C-830-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317605
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1C-830-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6131 lumens
Efficiency: N/A
Efficacy: 103.9 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

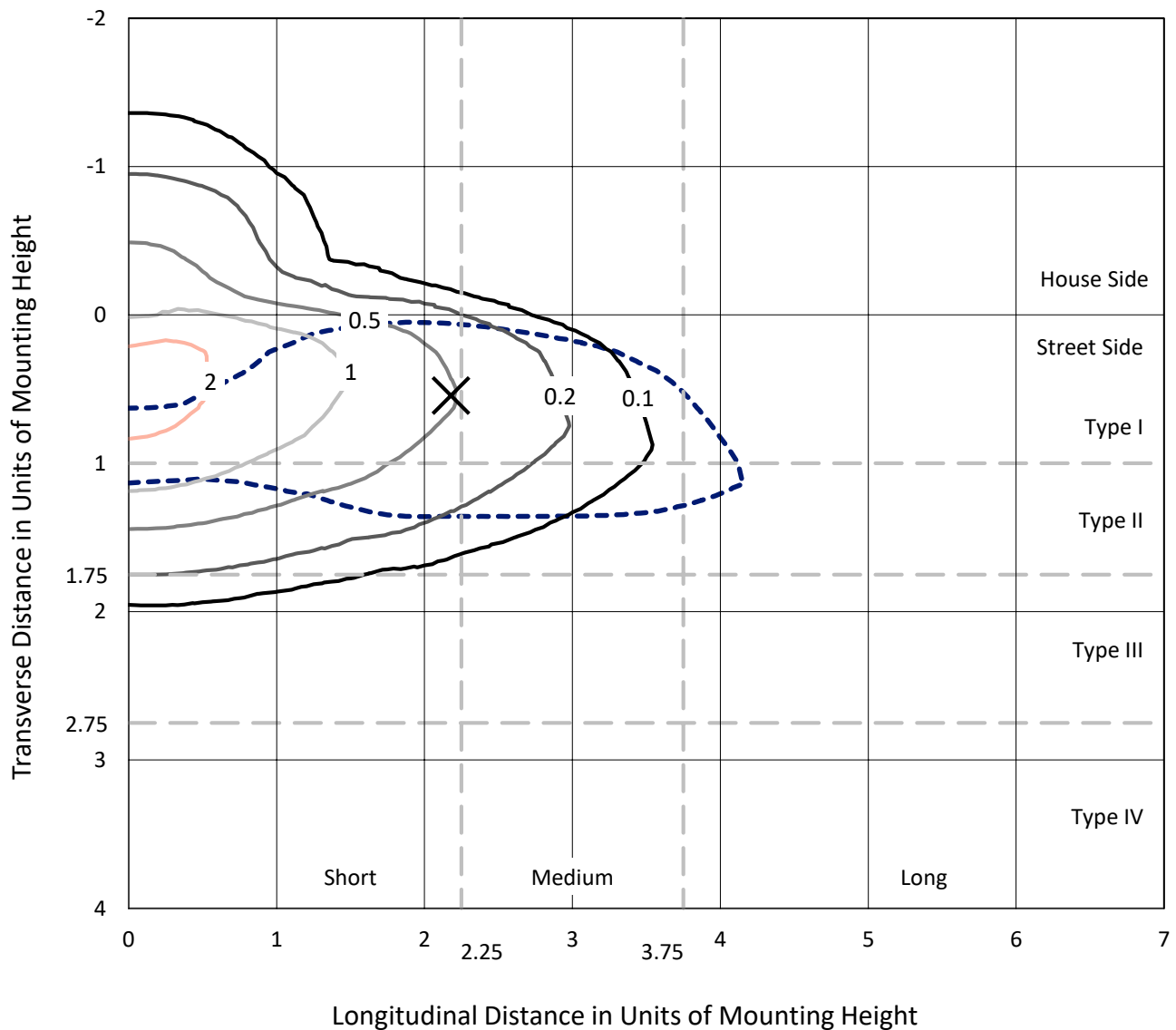
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

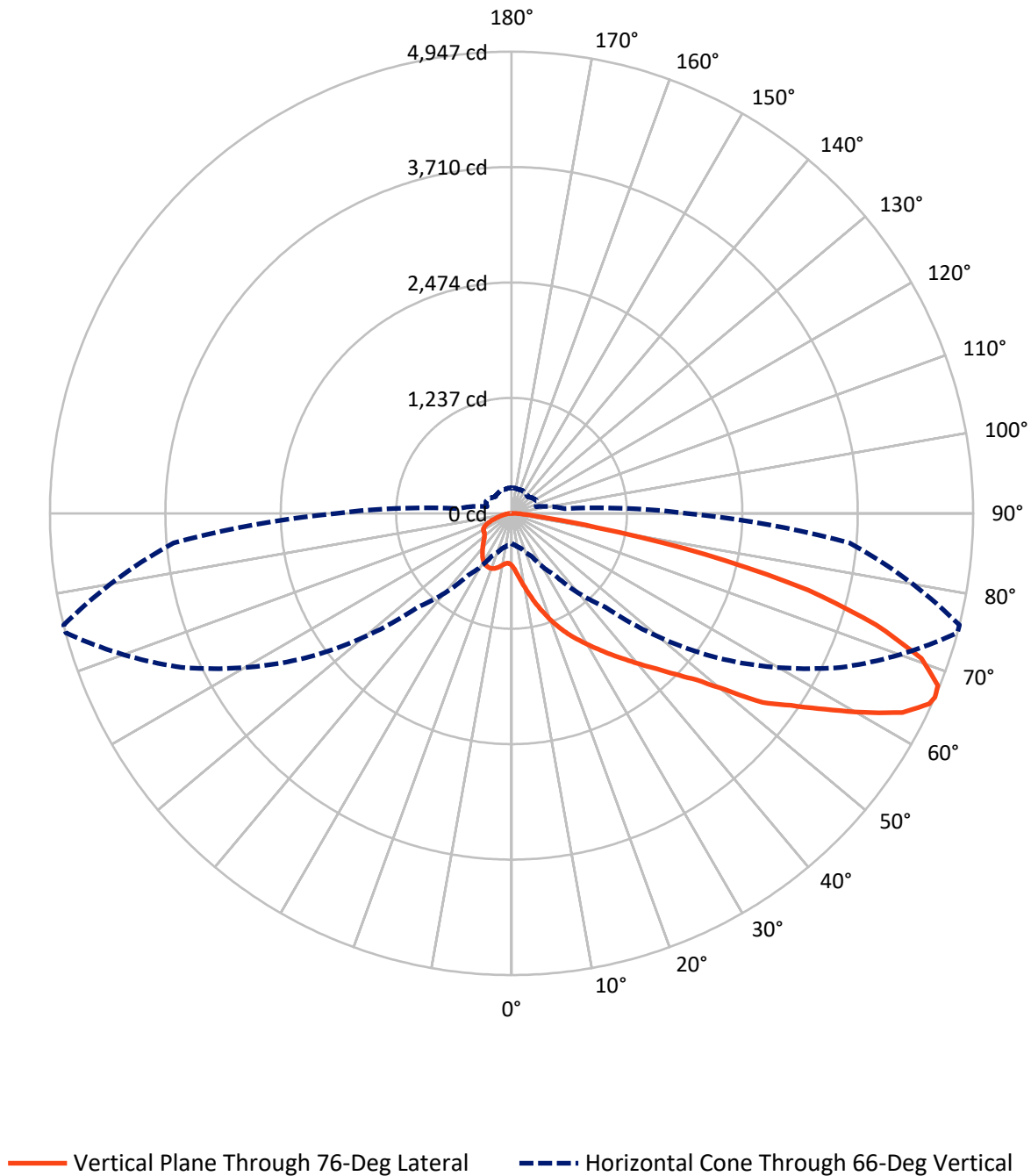
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1031.6	0.0	1031.6
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	5099.4	0.0	5099.4
	% Fixture	83.2	0.0	83.2
Total	Lumens	6131.0	0.0	6131.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.7	1.1
10°-20°	267.4	4.4
20°-30°	519.6	8.5
30°-40°	848.0	13.8
40°-50°	1158.6	18.9
50°-60°	1349.6	22.0
60°-70°	1209.9	19.7
70°-80°	611.4	10.0
80°-90°	98.7	1.6
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°	6131.0	100.0
0°-180°	6131.0	100.0

Coefficient of Utilization



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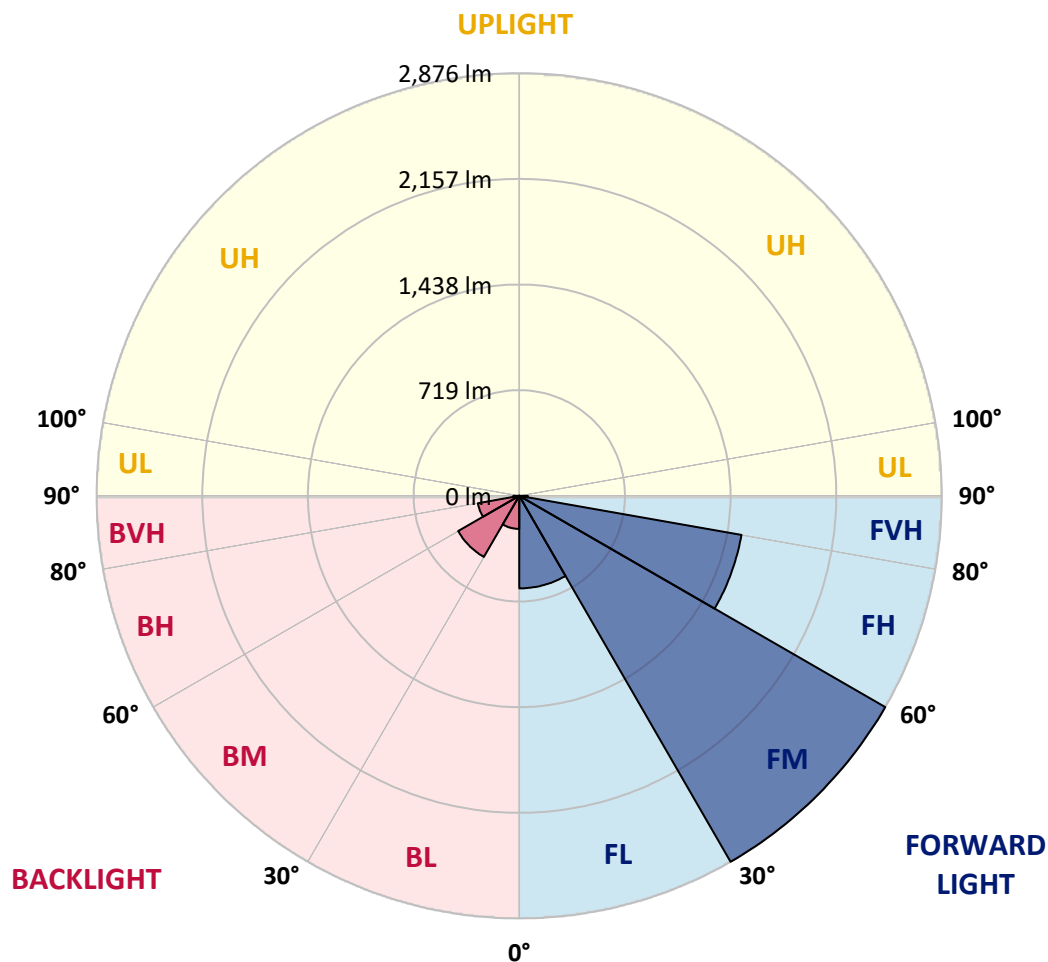
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	629.6	10.3			
FM	(30°-60°)	2875.9	46.9			
FH	(60°-80°)	1535.6	25.0			G1/1800
FVH	(80°-90°)	58.3	1.0			G1/100
BL	(0°-30°)	225.0	3.7	B1/500		
BM	(30°-60°)	480.4	7.8	B1/1000		
BH	(60°-80°)	285.8	4.7	B1/500		G1/500
BVH	(80°-90°)	40.4	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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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	559.9	559.9	559.9	559.9	559.9	559.9	559.9	559.9	559.9	559.9	559.9
2.5°	743.3	732.0	731.0	714.5	710.8	679.4	656.3	632.1	604.6	599.2	577.6
5°	954.7	953.7	939.3	912.5	891.5	837.8	784.7	728.5	666.9	656.9	608.2
7.5°	1145.0	1143.3	1132.3	1103.4	1073.0	1007.0	931.2	845.1	745.1	730.4	649.6
10°	1289.4	1288.8	1285.1	1263.8	1238.0	1174.7	1091.1	973.5	836.1	815.9	701.4
12.5°	1401.0	1402.2	1404.7	1397.2	1385.0	1331.1	1245.3	1109.6	933.1	913.1	759.1
15°	1476.6	1480.3	1493.2	1503.8	1510.3	1477.2	1394.1	1248.8	1041.7	1017.8	823.0
17.5°	1514.6	1518.8	1541.1	1573.1	1602.7	1599.4	1533.4	1381.6	1146.0	1122.9	891.7
20°	1547.5	1550.6	1575.6	1614.1	1666.4	1689.5	1652.4	1509.4	1260.3	1232.8	964.5
22.5°	1642.9	1646.8	1654.3	1676.2	1722.4	1764.8	1746.9	1630.4	1365.0	1339.4	1033.6
25°	1826.9	1831.6	1815.4	1796.9	1805.6	1835.2	1838.5	1740.7	1471.1	1442.2	1107.9
27.5°	2048.5	2055.4	2027.7	1980.0	1938.4	1927.0	1923.0	1831.0	1572.5	1539.0	1181.4
30°	2265.6	2277.5	2241.5	2179.6	2103.3	2049.6	2009.8	1919.5	1672.4	1640.4	1250.7
32.5°	2477.7	2472.9	2420.7	2360.3	2270.8	2203.6	2107.4	2014.4	1784.8	1748.0	1319.6
35°	2623.0	2624.7	2576.2	2504.6	2419.2	2367.6	2238.1	2116.8	1899.5	1865.6	1397.9
37.5°	2746.6	2738.9	2684.0	2617.2	2543.7	2521.6	2391.1	2229.6	2023.8	1986.7	1481.1
40°	2787.8	2778.9	2742.9	2694.8	2635.9	2634.0	2559.9	2357.4	2164.2	2127.6	1575.0
42.5°	2762.9	2751.4	2736.6	2723.5	2705.4	2713.7	2718.5	2507.3	2318.7	2277.7	1683.7
45°	2670.7	2653.4	2663.8	2692.3	2731.6	2778.7	2861.7	2673.2	2491.7	2457.3	1811.2
47.5°	2528.9	2513.3	2545.8	2606.8	2713.7	2832.8	2997.2	2856.3	2698.1	2664.0	1992.9
50°	2329.5	2334.1	2380.5	2491.4	2653.2	2857.8	3164.2	3098.8	2998.3	2966.4	2240.8
52.5°	2002.3	2003.1	2133.9	2316.0	2545.8	2844.9	3256.8	3408.7	3408.1	3369.6	2476.9
55°	1698.4	1717.0	1820.4	2062.5	2371.8	2793.2	3321.5	3559.4	3677.2	3632.1	2696.9
57.5°	1401.6	1412.4	1510.5	1753.6	2123.5	2655.7	3387.9	3740.3	3987.4	3958.8	2970.4
60°	1064.0	1080.7	1182.0	1406.6	1805.8	2411.5	3394.2	3929.1	4358.1	4329.3	3275.7
62.5°	690.6	719.3	814.2	1024.7	1421.6	2060.4	3249.3	4052.5	4709.4	4699.2	3546.7
65°	396.9	418.6	484.6	646.9	980.8	1619.5	2904.8	4005.0	4925.7	4919.8	3648.1
66°	324.3	337.8	388.4	505.6	809.3	1422.2	2704.6	3904.9	4947.1	4947.3	3636.4
67.5°	259.3	265.4	288.1	362.0	597.2	1127.3	2346.8	3684.1	4920.4	4927.7	3561.3
70°	214.6	217.7	224.8	242.7	325.9	679.8	1665.8	3110.2	4653.0	4658.6	3268.0
72.5°	192.5	194.4	197.1	199.6	230.0	379.9	1017.4	2488.1	4079.6	4086.8	2821.1
75°	174.4	175.5	175.0	175.3	192.9	242.1	525.8	1857.7	3298.6	3284.0	2161.1
77.5°	153.2	154.2	152.2	152.6	170.7	186.1	261.6	1300.5	2226.1	2123.2	1217.6
80°	129.5	130.3	129.5	130.9	148.6	140.5	152.2	731.6	984.3	931.0	432.9
82.5°	97.8	101.4	103.9	109.7	122.4	99.9	101.8	284.9	299.7	285.4	132.8
85°	42.9	52.2	78.3	83.9	92.0	59.9	66.8	116.1	122.0	118.2	48.3
87.5°	11.2	12.3	38.7	48.7	51.0	27.1	34.8	52.9	55.8	52.9	16.0
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°	559.9	559.9	559.9	559.9	559.9	559.9	559.9	559.9	559.9	559.9	559.9
2.5°	566.1	555.9	537.6	521.4	509.1	500.8	492.5	488.3	485.8	483.3	483.7
5°	584.3	563.6	532.2	509.9	497.5	489.5	485.4	483.7	482.7	480.2	480.2
7.5°	611.5	582.4	539.1	516.2	506.4	500.4	497.9	497.0	495.8	492.9	493.3
10°	645.9	605.1	553.4	531.2	522.2	515.6	512.0	510.8	508.5	505.2	505.6
12.5°	686.2	633.2	572.4	549.1	538.3	529.3	523.5	519.9	516.0	511.6	511.8
15°	730.4	663.8	592.8	565.1	550.3	537.8	528.5	522.4	516.2	510.8	510.6
17.5°	775.1	693.3	608.4	573.8	553.9	537.4	524.7	515.4	507.7	501.0	500.4
20°	823.4	720.0	617.1	573.0	547.2	527.6	510.8	499.1	490.6	483.9	482.9
22.5°	872.5	744.9	618.6	564.5	532.4	508.5	490.8	477.9	469.1	462.3	459.8
25°	917.5	764.3	612.6	548.0	511.8	486.0	468.7	455.6	448.5	440.4	437.9
27.5°	958.5	777.8	600.5	527.0	488.7	463.3	447.1	435.8	428.1	421.9	419.8
30°	995.3	785.1	580.7	502.0	465.0	441.9	428.1	420.4	413.8	405.9	404.4
32.5°	1030.3	785.1	555.3	474.8	441.5	422.9	414.8	410.0	402.5	394.8	392.8
35°	1065.3	780.3	525.3	446.3	419.8	409.4	409.0	403.4	391.9	381.5	378.8
37.5°	1102.1	770.5	491.6	419.6	402.1	403.4	406.9	394.4	378.2	363.4	359.5
40°	1143.7	757.0	456.7	396.5	387.3	400.7	401.3	381.5	349.9	336.4	332.8
42.5°	1192.6	743.5	424.2	376.1	375.7	392.6	390.7	353.6	334.7	327.8	325.9
45°	1257.0	735.8	393.4	356.8	366.5	379.4	372.6	338.2	330.3	326.4	324.7
47.5°	1358.3	739.7	365.1	341.4	357.4	366.3	338.9	332.0	326.4	321.6	319.9
50°	1485.3	737.4	342.2	330.7	347.0	352.6	323.7	323.9	321.0	315.5	313.0
52.5°	1580.8	719.5	327.4	324.7	337.8	328.2	314.1	316.0	314.5	306.6	303.9
55°	1673.0	704.1	319.9	322.4	331.2	297.8	302.8	307.4	306.0	298.3	297.0
57.5°	1787.7	701.2	315.3	323.0	325.5	282.7	292.0	298.1	297.0	293.7	293.1
60°	1928.2	702.1	311.2	324.1	319.3	271.4	281.8	289.5	290.1	289.5	289.1
62.5°	2005.4	679.4	300.8	321.2	308.3	261.6	271.2	282.4	282.7	283.9	283.7
65°	1939.9	611.5	281.4	311.0	289.7	253.5	262.0	274.3	271.2	276.8	276.8
66°	1876.2	572.4	271.8	304.3	281.8	250.4	259.1	270.2	266.2	273.9	273.9
67.5°	1746.1	506.4	254.6	290.1	270.6	246.0	255.8	263.3	257.9	269.3	268.5
70°	1508.4	391.7	219.8	258.1	252.1	239.6	251.2	249.6	241.7	259.1	255.8
72.5°	1271.7	297.6	176.5	216.1	224.0	231.5	244.8	232.1	222.1	234.4	227.1
75°	986.8	223.8	139.5	168.0	189.2	218.8	237.1	211.9	197.5	196.3	192.3
77.5°	533.5	153.6	110.5	128.2	150.3	202.9	231.9	190.2	168.6	163.6	160.5
80°	211.3	99.9	80.3	97.2	105.1	180.0	219.4	165.1	139.0	134.0	129.3
82.5°	87.2	59.1	51.8	65.1	68.5	154.0	196.9	135.3	107.4	148.6	157.8
85°	37.5	32.5	30.8	33.7	38.7	108.0	156.7	103.2	115.9	103.4	82.2
87.5°	11.2	13.7	13.1	12.9	14.2	25.8	83.5	57.4	85.1	32.3	24.1
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)