

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: P317365

Luminaire Tested: **GAN-SA1C-727-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317365
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-727-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6452 lumens
Efficiency: N/A
Efficacy: 109.4 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

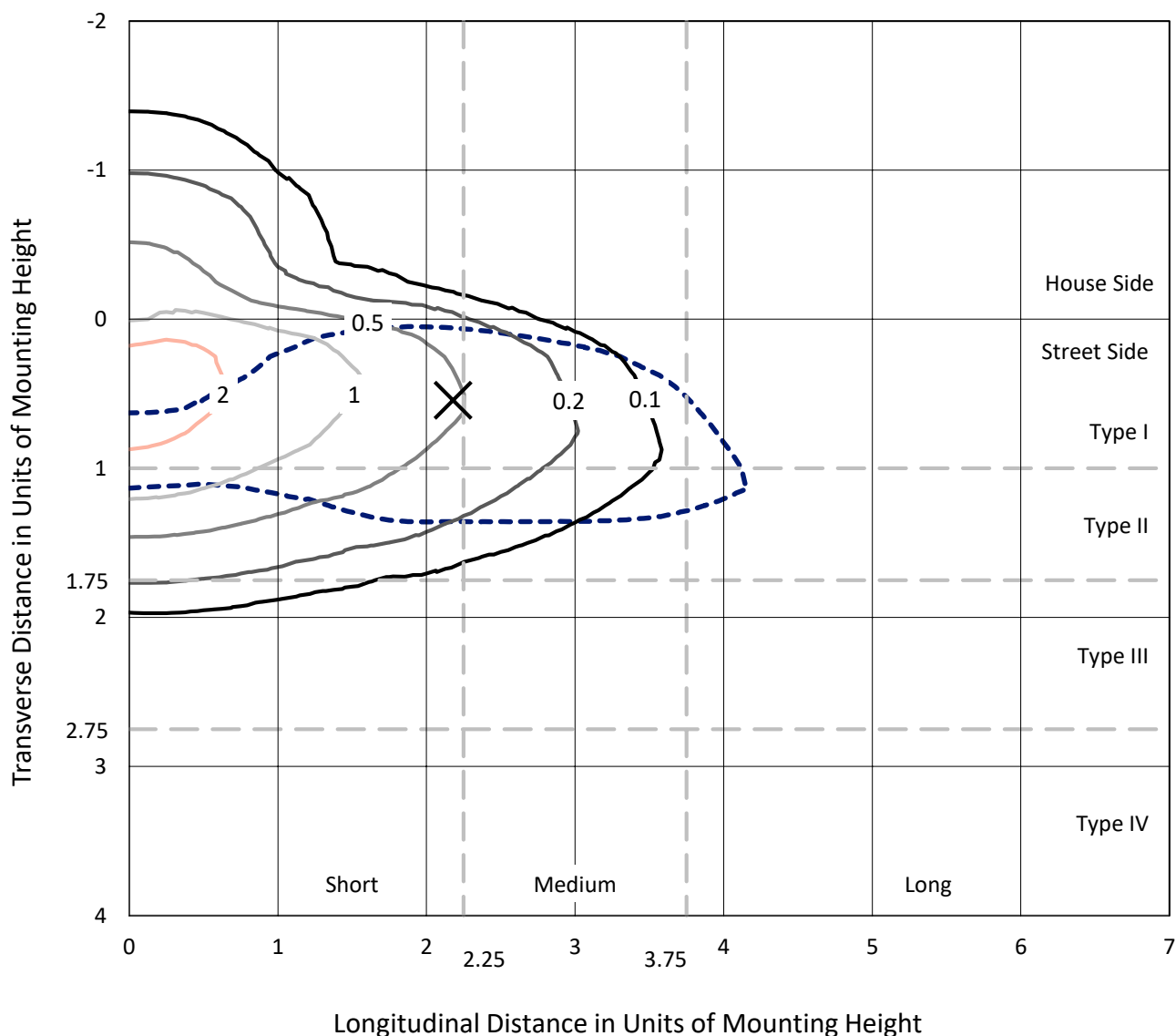
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

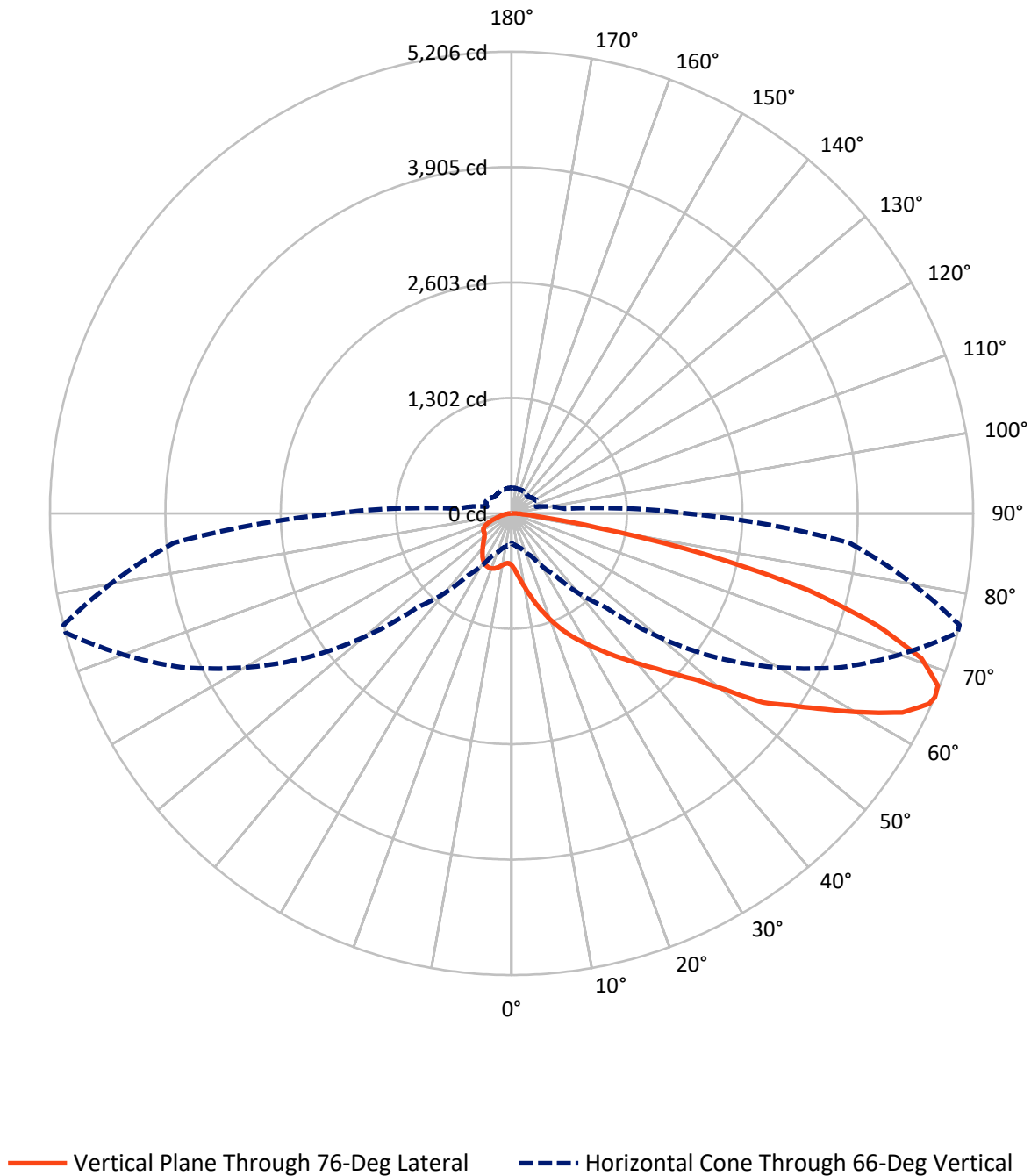
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 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	1085.7	0.0	1085.7
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	5366.4	0.0	5366.4
	% Fixture	83.2	0.0	83.2
Total	Lumens	6452.0	0.0	6452.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.3	1.1
10°-20°	281.4	4.4
20°-30°	546.8	8.5
30°-40°	892.4	13.8
40°-50°	1219.3	18.9
50°-60°	1420.2	22.0
60°-70°	1273.3	19.7
70°-80°	643.5	10.0
80°-90°	103.9	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°	6452.0	100.0
0°-180°	6452.0	100.0

Coefficient of Utilization



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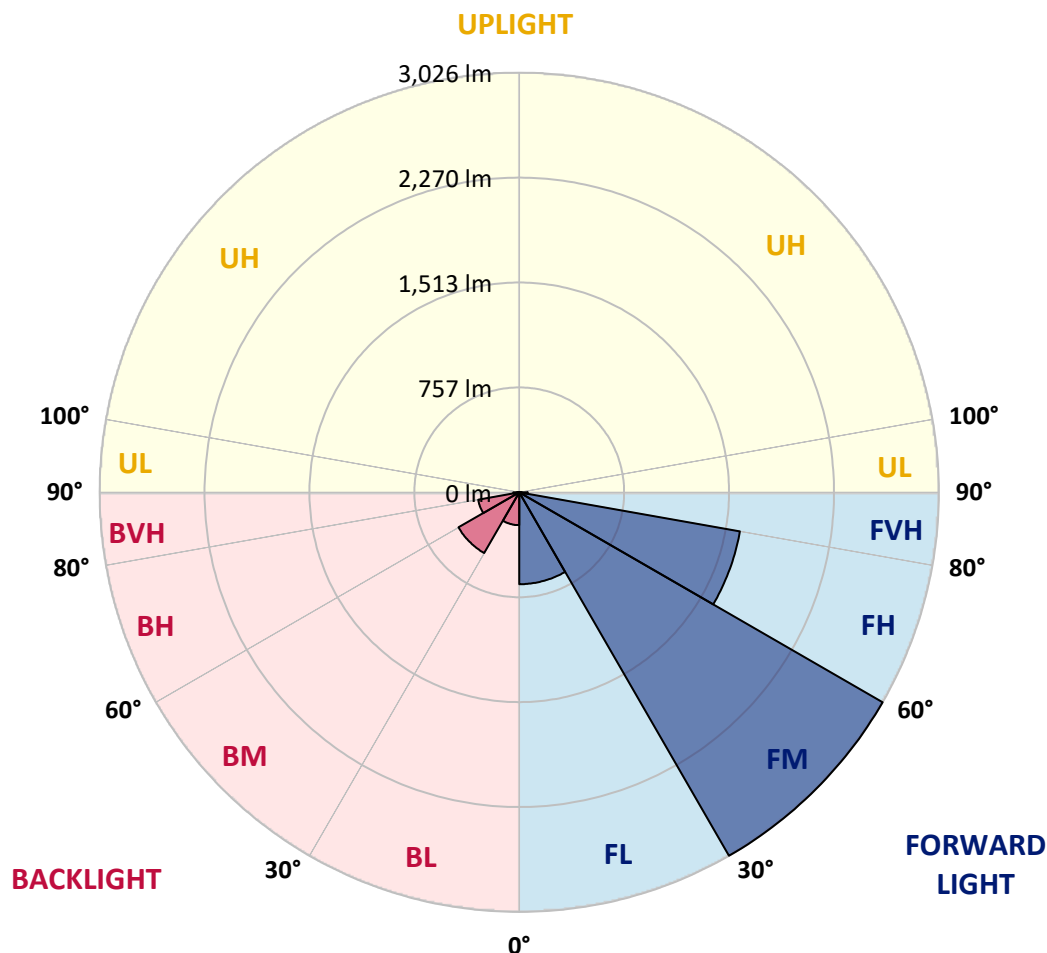
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	662.6	10.3			
FM	(30°-60°)	3026.4	46.9			
FH	(60°-80°)	1615.9	25.0			G1/1800
FVH	(80°-90°)	61.4	1.0			G1/100
BL	(0°-30°)	236.8	3.7	B1/500		
BM	(30°-60°)	505.5	7.8	B1/1000		
BH	(60°-80°)	300.8	4.7	B1/500		G1/500
BVH	(80°-90°)	42.5	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°	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2
2.5°	782.2	770.4	769.3	752.0	748.0	714.9	690.6	665.2	636.3	630.6	607.8
5°	1004.7	1003.6	988.5	960.3	938.1	881.6	825.8	766.6	701.8	691.3	640.0
7.5°	1204.9	1203.2	1191.6	1161.1	1129.1	1059.7	980.0	889.3	784.2	768.6	683.6
10°	1356.9	1356.3	1352.3	1330.0	1302.8	1236.3	1148.2	1024.4	879.9	858.6	738.2
12.5°	1474.3	1475.7	1478.3	1470.4	1457.5	1400.8	1310.5	1167.7	981.9	960.9	798.8
15°	1553.9	1557.8	1571.4	1582.6	1589.3	1554.5	1467.1	1314.2	1096.3	1071.1	866.1
17.5°	1593.9	1598.3	1621.8	1655.5	1686.6	1683.1	1613.7	1454.0	1206.0	1181.7	938.4
20°	1628.6	1631.8	1658.1	1698.6	1753.6	1777.9	1738.9	1588.5	1326.3	1297.4	1015.0
22.5°	1728.9	1733.0	1740.9	1763.9	1812.5	1857.2	1838.4	1715.7	1436.5	1409.5	1087.7
25°	1922.5	1927.5	1910.5	1891.0	1900.2	1931.3	1934.8	1831.8	1548.2	1517.7	1165.9
27.5°	2155.8	2163.0	2133.9	2083.7	2039.9	2027.9	2023.7	1926.9	1654.8	1619.6	1243.3
30°	2384.2	2396.7	2358.8	2293.8	2213.4	2156.9	2115.0	2020.0	1760.0	1726.2	1316.2
32.5°	2607.4	2602.4	2547.4	2483.9	2389.7	2319.0	2217.8	2119.9	1878.3	1839.5	1388.7
35°	2760.3	2762.1	2711.0	2635.7	2545.9	2491.6	2355.3	2227.6	1998.9	1963.2	1471.1
37.5°	2890.4	2882.3	2824.5	2754.2	2676.9	2653.6	2516.3	2346.3	2129.7	2090.7	1558.7
40°	2933.8	2924.4	2886.5	2835.9	2773.9	2771.9	2694.0	2480.8	2277.6	2239.0	1657.5
42.5°	2907.5	2895.5	2879.9	2866.1	2847.1	2855.8	2860.9	2638.5	2440.1	2396.9	1771.8
45°	2810.5	2792.3	2803.3	2833.3	2874.7	2924.2	3011.6	2813.1	2622.1	2586.0	1906.1
47.5°	2661.3	2644.9	2679.1	2743.2	2855.8	2981.1	3154.2	3005.9	2839.4	2803.5	2097.3
50°	2451.5	2456.3	2505.1	2621.9	2792.1	3007.4	3329.8	3261.0	3155.2	3121.7	2358.2
52.5°	2107.1	2108.0	2245.6	2437.2	2679.1	2993.8	3427.3	3587.2	3586.5	3546.0	2606.6
55°	1787.4	1806.8	1915.7	2170.5	2495.9	2939.5	3495.4	3745.8	3869.8	3822.2	2838.1
57.5°	1475.0	1486.4	1589.6	1845.4	2234.6	2794.7	3565.3	3936.1	4196.1	4166.1	3125.9
60°	1119.7	1137.2	1243.9	1480.3	1900.4	2537.8	3571.9	4134.8	4586.2	4556.0	3447.2
62.5°	726.8	757.0	856.9	1078.3	1496.0	2168.3	3419.4	4264.7	4956.0	4945.2	3732.4
65°	417.7	440.5	509.9	680.8	1032.1	1704.3	3056.9	4214.7	5183.5	5177.4	3839.1
66°	341.3	355.5	408.7	532.0	851.6	1496.7	2846.2	4109.4	5206.1	5206.3	3826.8
67.5°	272.9	279.3	303.1	380.9	628.4	1186.3	2469.7	3877.0	5178.1	5185.7	3747.7
70°	225.8	229.1	236.6	255.4	343.0	715.4	1753.0	3273.1	4896.6	4902.5	3439.1
72.5°	202.6	204.6	207.4	210.1	242.0	399.7	1070.7	2618.4	4293.2	4300.8	2968.8
75°	183.6	184.6	184.2	184.4	203.0	254.7	553.3	1954.9	3471.3	3456.0	2274.3
77.5°	161.2	162.3	160.1	160.6	179.6	195.8	275.3	1368.6	2342.6	2234.4	1281.4
80°	136.2	137.1	136.2	137.8	156.4	147.9	160.1	769.9	1035.8	979.8	455.6
82.5°	102.9	106.7	109.3	115.4	128.8	105.1	107.1	299.9	315.4	300.3	139.7
85°	45.1	55.0	82.4	88.3	96.8	63.1	70.3	122.2	128.4	124.4	50.8
87.5°	11.8	12.9	40.7	51.3	53.7	28.5	36.6	55.6	58.7	55.6	16.9
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°	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2
2.5°	595.8	585.1	565.8	548.7	535.8	527.0	518.2	513.9	511.2	508.6	509.0
5°	614.8	593.2	560.1	536.6	523.5	515.2	510.8	509.0	507.9	505.3	505.3
7.5°	643.5	612.9	567.3	543.2	532.9	526.6	523.9	523.1	521.7	518.7	519.1
10°	679.7	636.7	582.4	559.0	549.6	542.6	538.8	537.5	535.1	531.6	532.0
12.5°	722.2	666.3	602.4	577.8	566.4	557.0	550.9	547.2	543.0	538.4	538.6
15°	768.6	698.5	623.8	594.7	579.1	566.0	556.1	549.8	543.2	537.5	537.3
17.5°	815.7	729.6	640.2	603.9	582.9	565.6	552.2	542.3	534.2	527.2	526.6
20°	866.5	757.7	649.4	603.0	575.9	555.3	537.5	525.3	516.3	509.3	508.2
22.5°	918.2	783.9	651.0	594.0	560.3	535.1	516.5	502.9	493.7	486.5	483.9
25°	965.5	804.3	644.6	576.7	538.6	511.5	493.3	479.5	472.0	463.5	460.9
27.5°	1008.7	818.5	631.9	554.6	514.3	487.6	470.5	458.7	450.6	444.0	441.8
30°	1047.4	826.2	611.1	528.3	489.3	465.0	450.6	442.5	435.4	427.1	425.6
32.5°	1084.2	826.2	584.4	499.6	464.6	445.1	436.5	431.5	423.6	415.5	413.3
35°	1121.0	821.2	552.9	469.6	441.8	430.8	430.4	424.5	412.4	401.5	398.6
37.5°	1159.8	810.9	517.4	441.6	423.2	424.5	428.2	415.1	398.0	382.4	378.3
40°	1203.6	796.6	480.6	417.3	407.6	421.6	422.3	401.5	368.2	354.0	350.2
42.5°	1255.1	782.4	446.4	395.8	395.4	413.1	411.1	372.1	352.2	345.0	343.0
45°	1322.8	774.3	414.0	375.4	385.7	399.3	392.1	355.9	347.6	343.5	341.7
47.5°	1429.4	778.5	384.2	359.2	376.1	385.5	356.6	349.4	343.5	338.4	336.7
50°	1563.1	776.1	360.1	348.1	365.1	371.1	340.6	340.8	337.8	332.1	329.4
52.5°	1663.6	757.2	344.5	341.7	355.5	345.4	330.5	332.5	331.0	322.6	319.8
55°	1760.6	741.0	336.7	339.3	348.5	313.4	318.7	323.5	322.0	313.9	312.6
57.5°	1881.3	737.9	331.8	339.9	342.6	297.5	307.3	313.7	312.6	309.1	308.4
60°	2029.2	738.8	327.5	341.0	336.0	285.6	296.6	304.7	305.3	304.7	304.2
62.5°	2110.4	714.9	316.5	338.0	324.4	275.3	285.4	297.2	297.5	298.8	298.5
65°	2041.4	643.5	296.1	327.2	304.9	266.8	275.8	288.7	285.4	291.3	291.3
66°	1974.4	602.4	286.1	320.2	296.6	263.5	272.7	284.3	280.2	288.3	288.3
67.5°	1837.5	532.9	267.9	305.3	284.7	258.9	269.2	277.1	271.4	283.4	282.6
70°	1587.4	412.2	231.3	271.6	265.3	252.1	264.4	262.6	254.3	272.7	269.2
72.5°	1338.3	313.2	185.7	227.4	235.7	243.6	257.6	244.2	233.7	246.6	239.0
75°	1038.5	235.5	146.8	176.8	199.1	230.2	249.5	223.0	207.9	206.6	202.4
77.5°	561.4	161.7	116.3	134.9	158.1	213.6	244.0	200.2	177.4	172.2	168.9
80°	222.3	105.1	84.5	102.3	110.6	189.5	230.9	173.7	146.3	141.1	136.0
82.5°	91.8	62.2	54.5	68.6	72.1	162.1	207.2	142.4	113.0	156.4	166.0
85°	39.4	34.2	32.4	35.5	40.7	113.7	164.9	108.6	122.0	108.9	86.5
87.5°	11.8	14.5	13.8	13.6	14.9	27.2	87.8	60.5	89.6	34.0	25.4
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)