

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: P317885

Luminaire Tested: **GAN-SA1C-827-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317885
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1C-827-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE III ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5566 lumens
Efficiency: N/A
Efficacy: 94.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

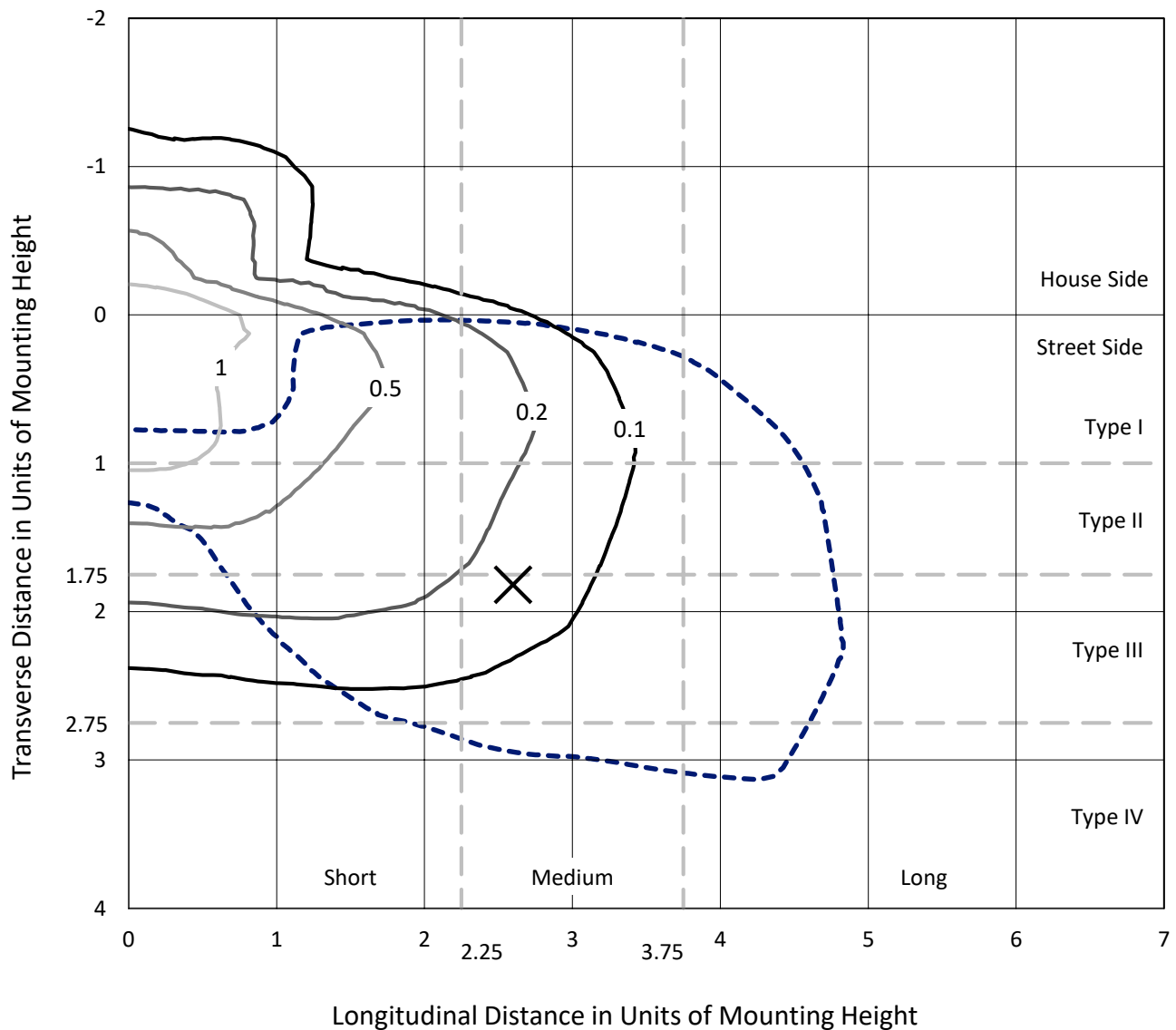
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

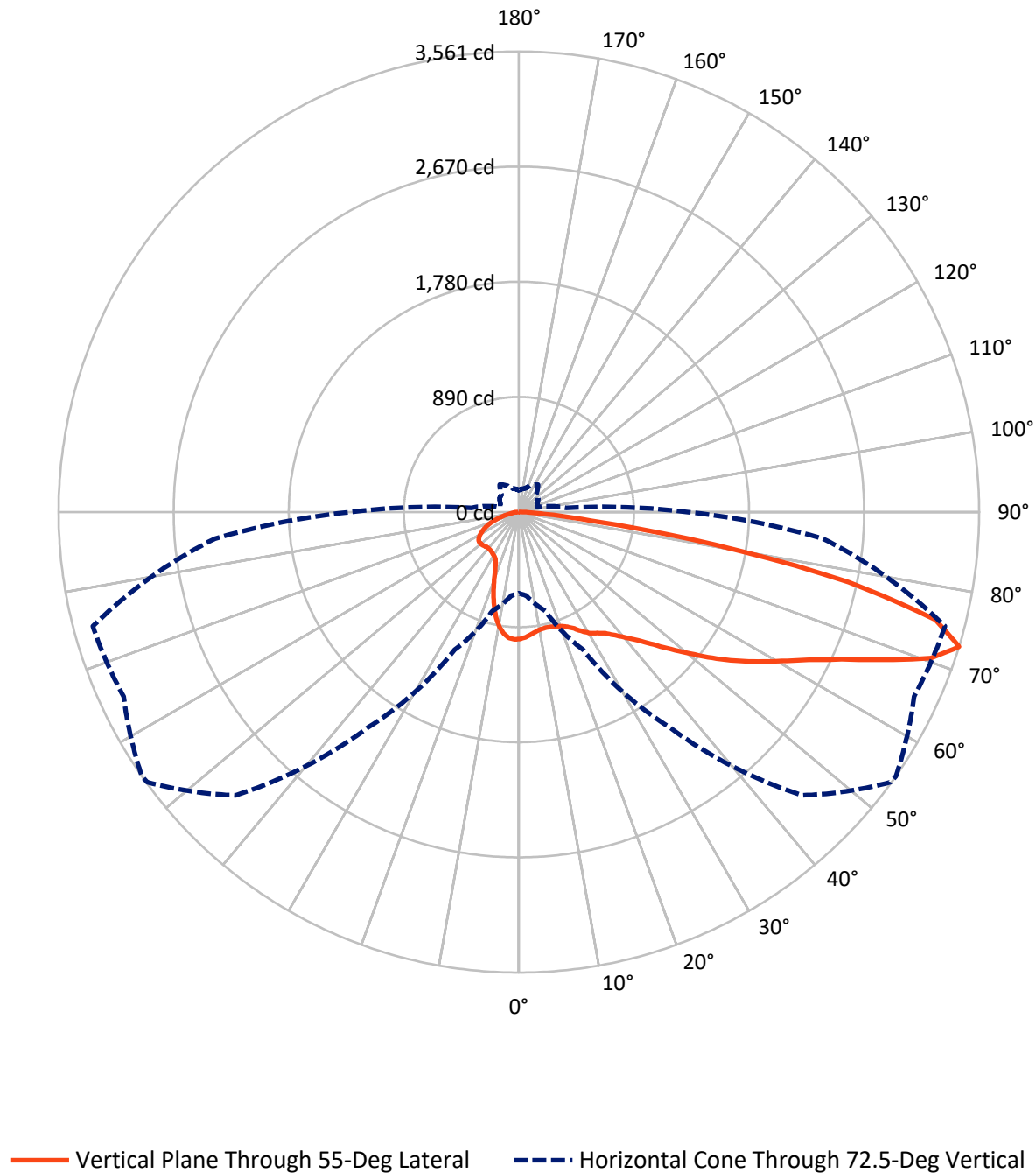
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1034.5	0.0	1034.5
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	4531.5	0.0	4531.5
	% Fixture	81.4	0.0	81.4
Total	Lumens	5566.0	0.0	5566.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.8	1.6
10°-20°	236.5	4.2
20°-30°	389.9	7.0
30°-40°	576.8	10.4
40°-50°	805.1	14.5
50°-60°	1048.3	18.8
60°-70°	1288.3	23.1
70°-80°	1009.9	18.1
80°-90°	122.2	2.2
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°	5566.0	100.0
0°-180°	5566.0	100.0

Coefficient of Utilization



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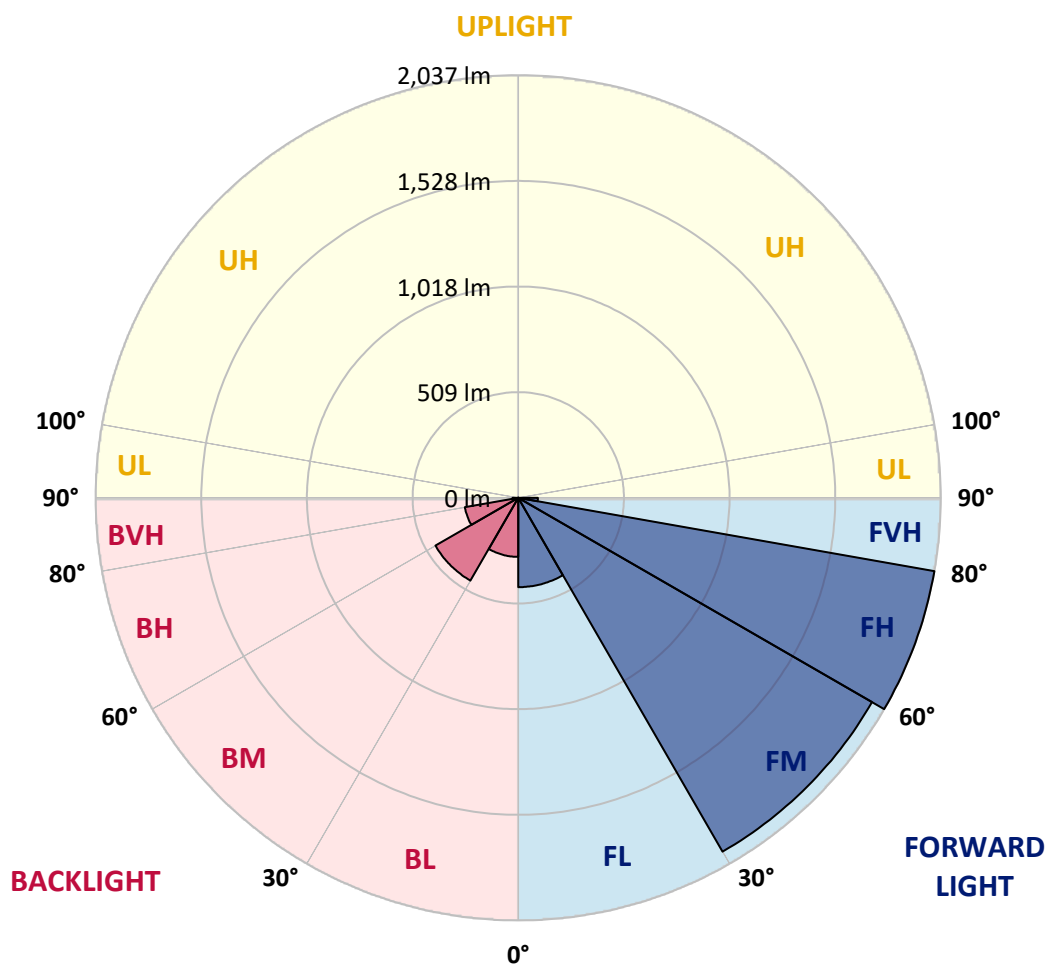
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	430.6	7.7			
FM	(30°-60°)	1969.4	35.4			
FH	(60°-80°)	2037.0	36.6			G2/5000
FVH	(80°-90°)	94.5	1.7			G1/100
BL	(0°-30°)	284.6	5.1	B1/500		
BM	(30°-60°)	460.9	8.3	B1/1000		
BH	(60°-80°)	261.3	4.7	B1/500		G1/500
BVH	(80°-90°)	27.7	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	981.7	981.7	981.7	981.7	981.7	981.7	981.7	981.7	981.7	981.7	981.7
2.5°	949.8	947.5	950.3	954.3	958.6	964.4	967.8	969.3	975.1	977.4	982.3
5°	905.8	904.6	909.3	916.1	925.7	939.2	950.1	952.2	967.6	978.5	988.5
7.5°	873.8	873.8	879.3	887.3	898.1	916.3	931.7	934.5	960.7	984.2	1002.6
10°	848.4	849.4	855.8	865.4	877.9	897.3	917.8	921.0	958.8	997.3	1026.7
12.5°	831.5	833.8	839.6	848.2	863.8	887.3	913.3	917.6	962.7	1016.1	1055.6
15°	842.2	846.0	846.6	850.1	858.8	884.3	915.9	920.4	971.2	1035.3	1088.5
17.5°	889.2	890.5	884.7	877.2	873.1	889.4	923.8	928.5	981.3	1054.3	1120.1
20°	960.7	959.9	947.3	927.0	906.0	908.6	936.8	941.7	995.1	1071.0	1151.7
22.5°	1050.9	1048.3	1028.9	991.5	955.6	940.6	959.5	963.7	1015.8	1094.9	1185.5
25°	1160.3	1154.5	1128.9	1078.7	1025.9	987.2	993.8	997.7	1045.8	1121.6	1216.5
27.5°	1275.8	1269.9	1237.4	1176.7	1106.4	1046.0	1040.9	1044.3	1080.0	1141.3	1239.5
30°	1396.4	1390.2	1360.5	1292.5	1191.7	1106.9	1084.9	1086.2	1104.1	1152.0	1258.3
32.5°	1517.7	1511.9	1478.6	1399.6	1284.4	1172.4	1116.7	1115.0	1118.6	1163.1	1279.5
35°	1640.7	1642.9	1604.0	1516.6	1387.0	1245.1	1154.3	1150.7	1142.8	1185.9	1309.6
37.5°	1772.3	1770.7	1720.4	1629.0	1494.4	1324.1	1208.3	1207.7	1180.4	1228.9	1356.8
40°	1860.2	1861.2	1830.5	1744.1	1602.9	1411.5	1277.4	1276.1	1240.4	1293.4	1418.6
42.5°	1894.6	1900.8	1908.7	1853.8	1716.4	1512.8	1360.0	1358.1	1324.1	1385.9	1491.4
45°	1897.1	1909.5	1958.4	1951.4	1831.5	1628.8	1465.4	1460.2	1435.7	1508.9	1578.2
47.5°	1876.0	1888.8	1970.0	2009.5	1934.3	1751.2	1588.8	1584.6	1563.6	1662.6	1672.2
50°	1830.0	1842.2	1946.0	2037.9	2018.9	1868.9	1730.9	1720.0	1708.7	1840.3	1779.8
52.5°	1743.7	1767.2	1913.8	2044.7	2069.5	1973.4	1880.4	1873.2	1879.4	2027.7	1887.5
55°	1539.3	1565.6	1830.9	2039.0	2106.9	2061.2	2029.8	2029.4	2061.6	2224.4	2003.1
57.5°	1424.8	1443.4	1662.1	2029.4	2151.3	2148.4	2177.8	2181.3	2243.9	2438.5	2124.2
60°	1360.2	1379.7	1576.5	1993.9	2220.1	2261.2	2328.7	2335.9	2429.3	2675.6	2269.9
62.5°	1301.3	1322.8	1523.5	1921.5	2301.1	2422.5	2509.6	2516.0	2625.6	2919.2	2410.7
65°	1200.7	1225.0	1445.9	1874.0	2374.8	2632.9	2739.5	2743.8	2851.0	3174.5	2518.4
67.5°	1058.6	1080.8	1299.4	1768.9	2429.3	2888.4	3045.2	3047.6	3074.5	3354.8	2573.5
70°	892.6	901.1	1090.8	1551.9	2364.8	3127.3	3380.2	3380.8	3278.3	3470.2	2564.5
72.5°	627.2	647.1	791.8	1174.8	2032.3	3098.2	3554.1	3560.5	3373.1	3412.0	2359.6
75°	384.6	405.7	496.7	711.9	1289.3	2436.6	3283.8	3328.1	3195.4	3042.2	1927.5
77.5°	257.2	265.1	324.1	415.1	584.1	1401.9	2524.6	2608.1	2654.5	2218.6	1232.7
80°	143.4	158.5	214.9	257.9	259.8	557.0	1513.8	1533.3	1476.9	883.4	380.3
82.5°	76.0	84.2	143.4	151.5	141.8	186.5	564.2	564.7	471.9	236.9	113.0
85°	58.8	65.8	98.3	92.5	72.4	82.7	186.1	196.3	160.5	97.0	36.8
87.5°	29.3	36.5	66.7	58.7	28.4	23.7	66.6	71.1	63.4	38.0	13.3
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°	981.7	981.7	981.7	981.7	981.7	981.7	981.7	981.7	981.7	981.7	981.7
2.5°	984.2	985.9	987.9	985.7	984.9	981.9	976.8	975.7	973.1	973.3	974.8
5°	992.8	995.6	994.5	985.9	975.5	961.0	946.0	933.2	924.8	924.2	923.6
7.5°	1009.4	1011.2	1002.4	977.8	948.8	915.4	883.8	856.1	839.4	835.3	834.3
10°	1035.3	1034.9	1010.7	961.0	903.3	843.5	792.8	754.4	732.1	725.5	723.8
12.5°	1064.3	1059.9	1013.5	930.6	839.0	756.1	691.8	649.2	625.8	618.3	616.4
15°	1094.1	1083.4	1006.5	885.1	760.1	661.9	594.4	555.0	542.4	538.2	537.5
17.5°	1122.0	1101.3	986.6	823.4	670.0	568.1	515.5	499.7	502.7	508.2	508.3
20°	1149.2	1113.3	954.7	745.6	575.1	490.9	473.0	484.7	498.9	510.0	511.5
22.5°	1176.1	1121.8	913.5	655.7	490.1	447.4	460.0	481.3	497.6	509.7	511.7
25°	1198.7	1123.8	856.7	559.9	431.1	431.1	453.8	473.9	490.1	502.0	504.0
27.5°	1206.9	1109.9	776.6	471.1	401.4	423.6	445.2	461.9	475.6	488.2	490.5
30°	1210.1	1084.2	684.1	399.9	389.2	415.5	433.5	447.8	460.8	472.6	474.7
32.5°	1210.7	1053.2	586.0	359.5	380.7	407.0	419.0	431.6	445.6	450.3	451.0
35°	1214.3	1016.5	482.6	338.8	372.8	399.1	408.7	417.7	395.2	396.9	398.4
37.5°	1224.6	980.2	396.1	327.1	367.7	395.0	406.5	373.7	356.1	351.9	351.4
40°	1244.0	941.5	332.0	317.7	365.8	397.1	392.0	348.9	318.5	295.7	292.3
42.5°	1270.9	899.8	291.0	311.5	367.2	407.0	371.9	325.0	274.5	259.8	257.9
45°	1301.1	856.0	268.8	307.2	371.7	414.7	367.7	293.3	254.0	242.9	242.0
47.5°	1330.5	802.4	257.4	305.3	377.9	408.5	350.2	283.5	244.2	238.4	238.9
50°	1364.1	754.1	250.4	303.2	383.3	404.6	330.5	278.4	240.4	247.6	255.1
52.5°	1392.5	704.1	244.2	299.1	385.4	397.6	325.4	279.4	240.4	254.2	261.3
55°	1426.1	666.3	237.1	290.5	381.4	377.9	321.9	285.0	243.3	234.6	235.4
57.5°	1469.6	653.9	229.2	276.9	368.3	349.1	320.2	290.5	241.6	236.1	238.0
60°	1529.7	667.0	226.0	259.2	347.8	326.6	320.3	287.6	229.7	220.3	220.5
62.5°	1587.1	681.7	225.8	248.2	322.6	306.4	316.0	278.4	223.7	218.3	220.3
65°	1605.9	666.8	216.8	235.7	294.2	282.4	308.1	268.6	219.2	210.9	210.6
67.5°	1580.7	620.8	198.5	215.6	261.7	254.4	297.8	257.0	212.1	205.3	204.2
70°	1505.9	517.9	176.0	189.1	224.7	222.8	281.4	243.5	202.5	196.6	191.8
72.5°	1304.5	369.0	148.3	157.4	182.9	188.9	258.9	225.8	188.9	176.3	168.8
75°	1071.4	273.2	121.8	123.7	138.9	155.3	227.9	205.1	173.0	151.5	145.7
77.5°	656.1	167.1	97.0	97.8	99.6	123.9	187.6	182.0	152.7	126.3	122.2
80°	212.4	91.2	70.1	73.7	68.1	90.8	145.1	154.9	131.0	105.7	101.1
82.5°	80.8	53.2	47.4	49.8	47.2	60.9	105.8	124.1	107.3	86.9	70.7
85°	39.1	30.1	28.0	31.4	29.1	31.2	67.7	91.4	81.4	56.6	52.6
87.5°	13.9	13.3	10.7	14.5	12.4	11.1	20.7	46.1	53.8	38.9	34.8
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)