

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: P318575

Luminaire Tested: **GAN-SA1D-830-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318575
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1D-830-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6456 lumens
Efficiency: N/A
Efficacy: 96.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

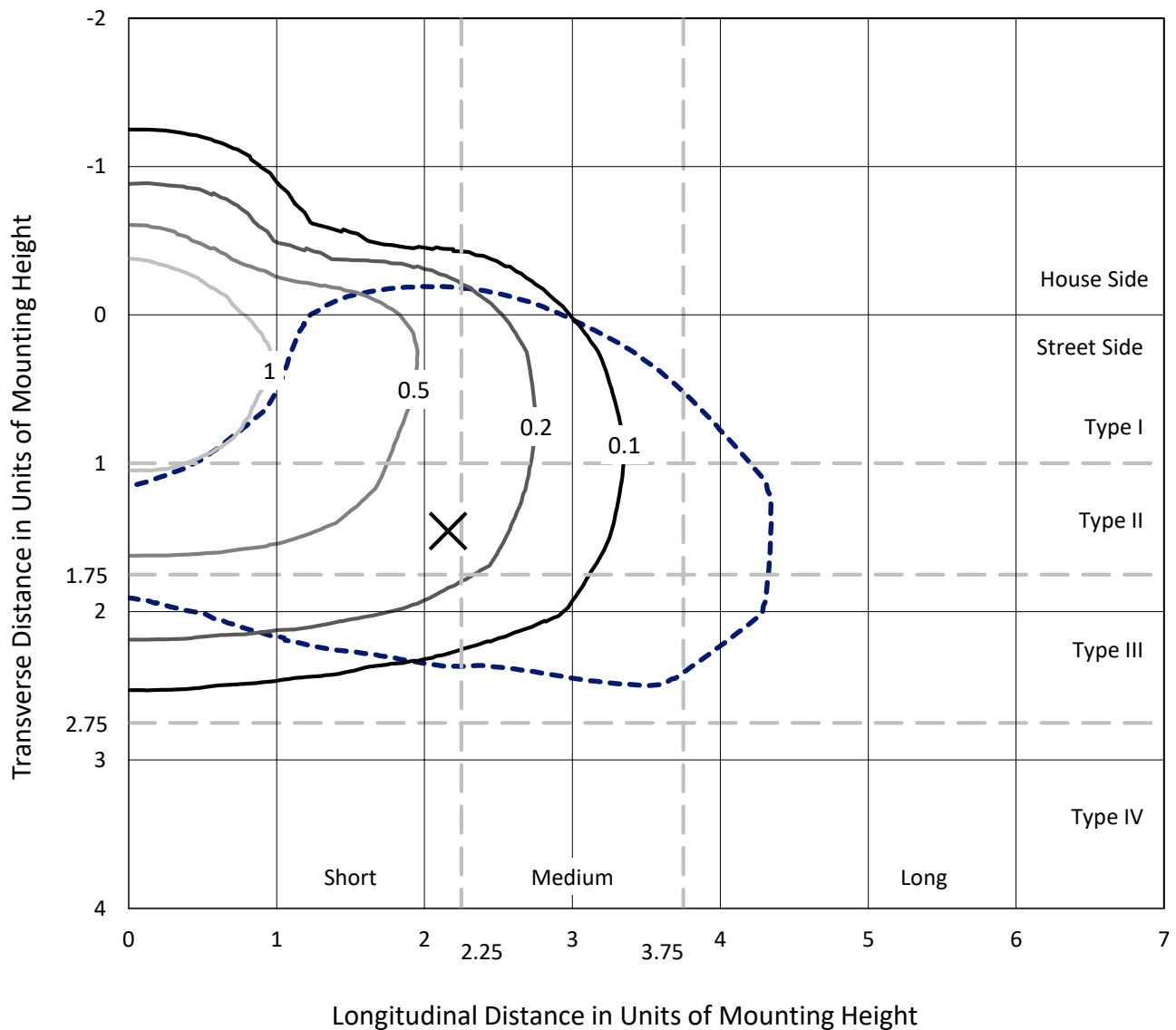
Input Watts (W): 67
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

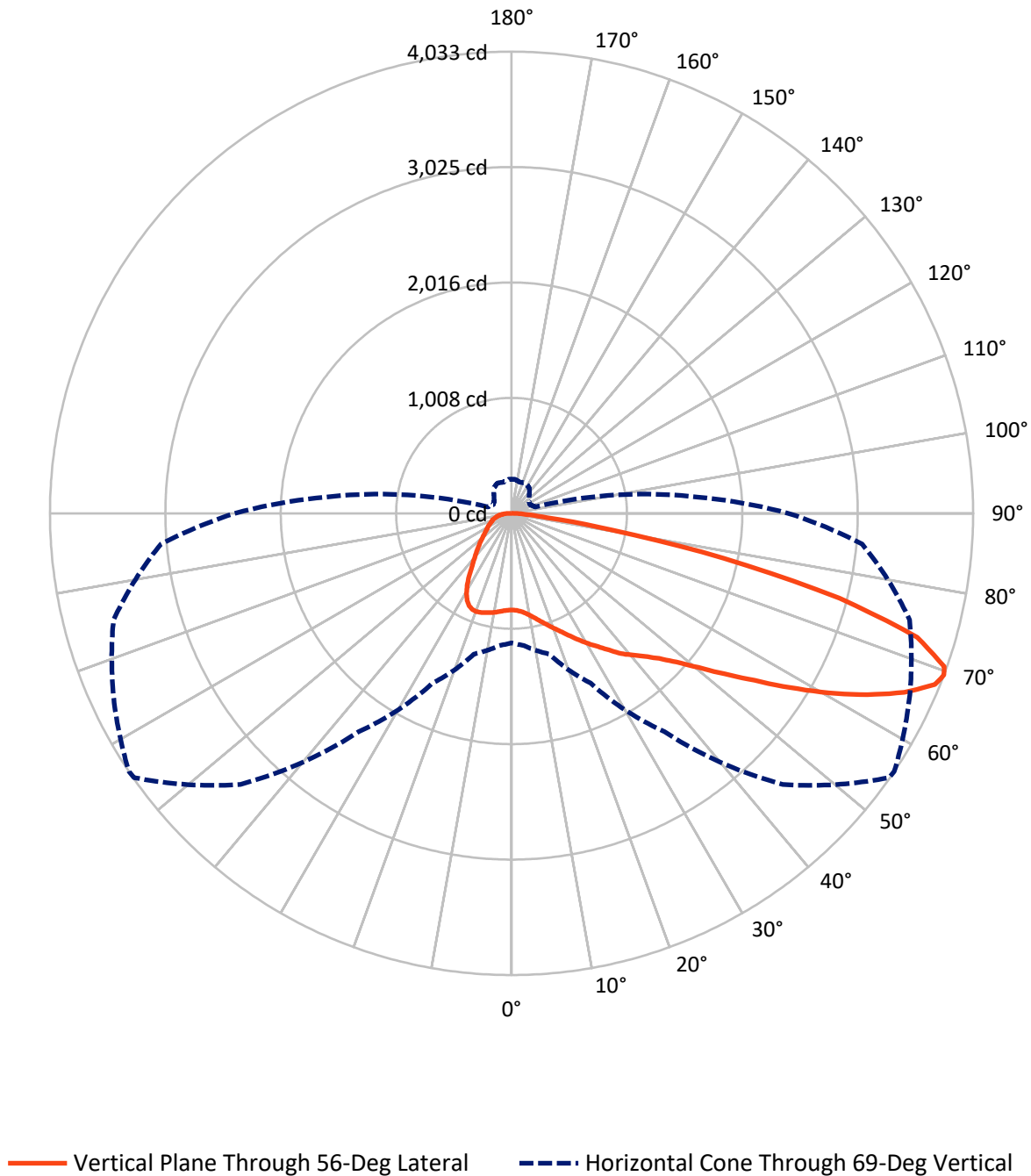
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1437.7	0.0	1437.7
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	5018.3	0.0	5018.3
	% Fixture	77.7	0.0	77.7
Total	Lumens	6456.0	0.0	6456.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.9	1.3
10°-20°	266.6	4.1
20°-30°	465.3	7.2
30°-40°	668.4	10.4
40°-50°	925.0	14.3
50°-60°	1355.3	21.0
60°-70°	1652.4	25.6
70°-80°	913.5	14.2
80°-90°	126.5	2.0
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°	6456.0	100.0
0°-180°	6456.0	100.0

Coefficient of Utilization



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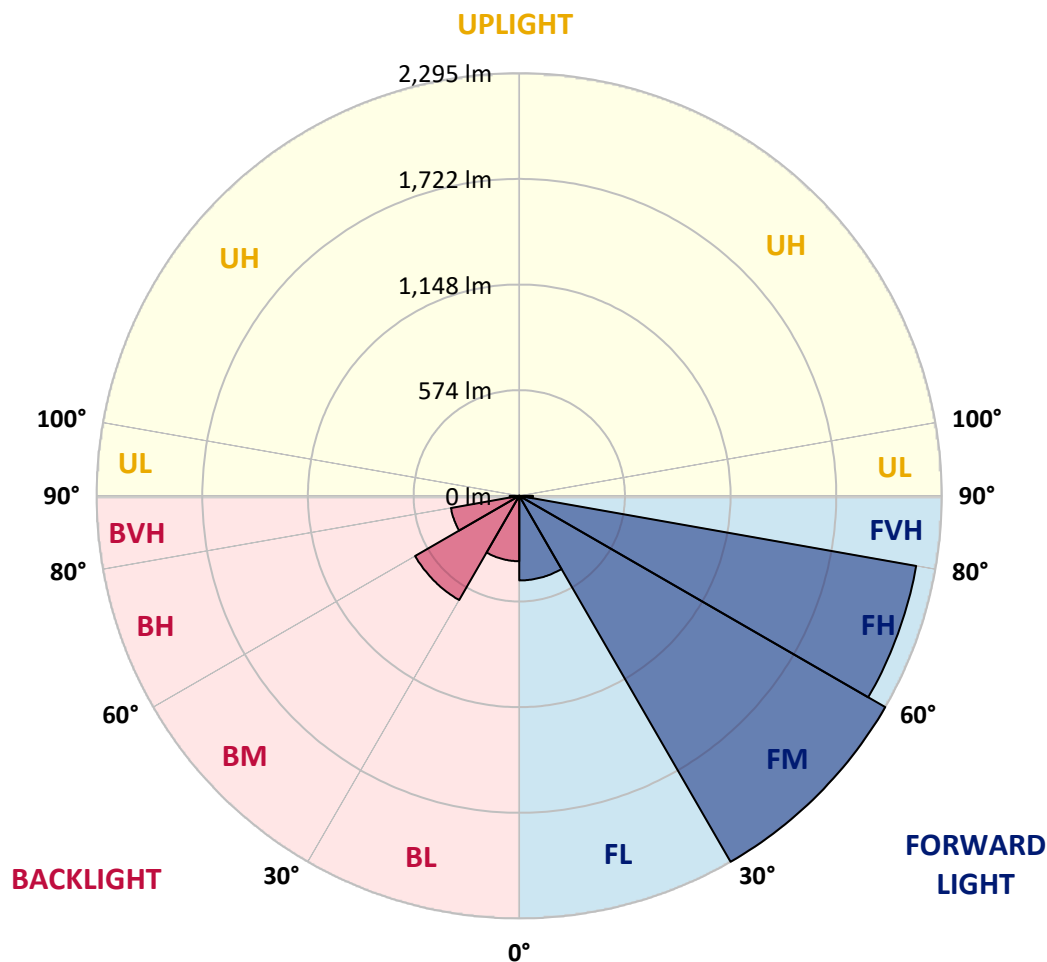
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	459.5	7.1			
FM	(30°-60°)	2295.3	35.6			
FH	(60°-80°)	2188.9	33.9			G2/5000
FVH	(80°-90°)	74.5	1.2			G1/100
BL	(0°-30°)	355.3	5.5	B1/500		
BM	(30°-60°)	653.4	10.1	B1/1000		
BH	(60°-80°)	377.0	5.8	B1/500		G1/500
BVH	(80°-90°)	52.0	0.8			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	844.0	844.0	844.0	844.0	844.0	844.0	844.0	844.0	844.0	844.0	844.0
2.5°	849.4	850.3	849.6	851.4	849.4	850.7	849.6	849.6	848.9	846.9	844.7
5°	862.7	864.5	863.4	865.2	862.7	863.2	861.1	861.1	859.1	854.9	850.5
7.5°	883.6	885.6	884.7	886.5	883.2	883.2	880.5	880.3	876.3	869.4	864.3
10°	908.5	911.2	910.3	913.0	910.3	911.2	908.5	908.5	903.2	893.4	886.9
12.5°	944.8	948.1	945.7	945.4	944.3	946.1	943.9	943.4	938.5	925.2	916.3
15°	993.3	996.8	991.7	991.3	985.0	984.4	984.4	983.7	980.6	964.6	949.9
17.5°	1049.1	1050.2	1045.7	1038.6	1030.6	1025.5	1024.8	1026.6	1026.6	1007.9	984.6
20°	1103.8	1105.8	1102.2	1094.2	1084.0	1076.4	1071.1	1074.7	1074.4	1052.2	1019.1
22.5°	1163.4	1168.1	1162.7	1152.5	1140.5	1132.0	1122.7	1125.8	1126.0	1098.7	1052.9
25°	1240.6	1236.3	1233.0	1218.6	1201.4	1192.8	1184.1	1187.2	1186.3	1148.7	1087.8
27.5°	1308.9	1309.7	1305.3	1289.9	1270.2	1251.0	1250.6	1252.6	1249.2	1200.8	1120.7
30°	1388.2	1388.7	1382.5	1368.7	1347.1	1322.4	1316.6	1320.0	1312.9	1250.1	1155.4
32.5°	1467.2	1469.4	1462.5	1445.9	1428.5	1398.5	1386.9	1389.1	1371.3	1300.6	1191.2
35°	1536.4	1539.5	1537.3	1526.1	1507.2	1481.4	1467.6	1466.3	1444.3	1362.4	1238.6
37.5°	1606.9	1609.8	1607.3	1598.0	1590.4	1563.1	1555.7	1555.7	1517.5	1425.6	1298.8
40°	1679.4	1683.8	1680.9	1668.0	1661.6	1649.1	1631.6	1627.3	1586.0	1501.5	1397.1
42.5°	1746.8	1752.5	1764.1	1756.6	1743.4	1745.2	1709.8	1707.6	1677.4	1613.5	1520.6
45°	1842.4	1850.8	1870.4	1864.6	1862.0	1852.2	1810.1	1808.1	1796.6	1764.3	1673.8
47.5°	1946.7	1958.3	1993.6	1994.7	2023.4	2005.0	1947.8	1940.9	1943.6	1944.9	1860.9
50°	2042.8	2055.5	2113.5	2140.9	2208.5	2212.5	2121.1	2114.8	2125.3	2156.0	2078.8
52.5°	2119.5	2135.5	2208.0	2292.5	2408.4	2441.3	2334.4	2329.7	2337.5	2390.4	2325.2
55°	2175.8	2193.1	2272.1	2426.0	2611.0	2669.1	2579.9	2575.4	2580.3	2647.7	2593.2
57.5°	2188.9	2193.1	2307.7	2515.8	2782.1	2921.5	2880.4	2871.5	2847.4	2906.2	2889.0
60°	2127.3	2144.2	2278.3	2547.4	2914.4	3170.4	3194.4	3183.3	3115.9	3163.9	3150.1
62.5°	2002.3	2032.6	2168.7	2499.4	2966.2	3373.7	3502.4	3489.1	3373.0	3404.1	3337.8
65°	1798.1	1811.0	1954.0	2333.7	2900.4	3503.8	3777.1	3770.4	3624.3	3575.6	3372.5
67.5°	1433.0	1457.2	1578.6	1987.4	2631.0	3488.4	3989.5	3988.8	3788.4	3639.2	3249.6
69°	1132.0	1157.2	1272.8	1637.1	2328.1	3348.1	4025.1	4032.9	3834.7	3600.5	3073.9
70°	902.5	931.7	1011.1	1378.9	2059.2	3163.0	3995.5	4009.5	3825.8	3536.7	2911.7
72.5°	384.1	407.7	464.2	710.8	1255.0	2361.9	3653.2	3706.1	3619.6	3236.9	2406.4
75°	167.7	175.0	200.6	289.8	557.1	1285.5	2861.9	2959.8	3095.0	2736.0	1792.6
77.5°	122.8	125.9	139.9	170.1	250.0	485.5	1840.4	1897.3	2232.1	1991.0	1099.6
80°	95.0	97.2	108.1	125.0	163.2	196.4	839.4	888.3	1255.0	1022.6	457.9
82.5°	75.6	77.2	84.7	92.1	112.8	119.0	278.7	309.1	463.3	282.5	121.2
85°	70.3	72.1	74.7	67.2	72.3	69.8	120.5	126.1	139.9	111.0	50.7
87.5°	31.8	37.6	74.1	52.3	38.5	30.7	49.4	51.6	58.0	58.3	22.5
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°	844.0	844.0	844.0	844.0	844.0	844.0	844.0	844.0	844.0	844.0	844.0
2.5°	846.0	845.4	846.5	843.8	847.1	846.9	845.8	846.2	848.5	848.3	848.5
5°	851.1	850.7	852.0	850.0	854.0	855.4	855.6	857.6	860.0	860.7	860.7
7.5°	864.0	864.0	864.7	862.0	864.7	864.5	863.4	865.4	867.8	868.0	867.8
10°	886.3	886.5	885.4	878.5	876.3	870.3	864.7	864.9	868.0	870.5	871.2
12.5°	914.3	913.4	908.5	895.8	886.5	874.3	868.5	868.3	871.4	873.4	874.0
15°	946.3	943.9	931.2	910.5	894.1	882.1	872.7	870.5	868.7	866.5	866.7
17.5°	976.6	971.0	949.9	921.2	903.9	887.8	869.8	855.4	845.4	839.6	837.8
20°	1007.3	996.4	965.9	931.2	909.2	880.1	845.4	816.0	797.8	789.3	787.8
22.5°	1035.3	1017.7	980.8	941.7	905.0	853.8	799.3	756.6	731.3	719.9	720.8
25°	1062.6	1038.2	996.4	949.0	883.6	807.6	735.3	682.8	653.4	640.7	640.3
27.5°	1086.7	1058.9	1013.3	943.0	843.8	741.7	659.4	608.3	583.8	572.9	571.1
30°	1114.2	1084.9	1035.7	920.1	785.5	665.7	585.4	549.3	532.0	521.1	519.1
32.5°	1147.8	1120.3	1054.2	878.5	711.0	586.3	527.5	502.4	486.6	474.4	472.2
35°	1196.8	1167.0	1058.9	818.9	629.2	523.5	485.1	459.3	437.9	422.1	420.6
37.5°	1258.1	1225.4	1048.2	741.7	549.8	482.8	449.7	417.9	390.1	367.9	364.3
40°	1346.7	1297.3	1018.6	652.8	491.3	451.5	415.2	379.0	344.5	318.5	313.4
42.5°	1453.0	1381.6	973.2	564.2	448.4	419.7	381.0	336.1	303.1	284.7	282.0
45°	1588.2	1469.2	910.3	486.8	406.1	387.9	344.1	302.7	282.2	268.7	266.4
47.5°	1742.5	1567.5	844.2	423.9	370.3	358.1	314.5	287.8	271.6	260.9	258.9
50°	1932.2	1678.5	774.2	372.3	334.3	322.3	300.5	279.6	266.7	258.4	256.4
52.5°	2146.2	1803.7	723.7	331.6	304.5	295.8	293.1	275.1	264.7	258.4	256.4
55°	2376.6	1931.1	669.2	297.4	278.7	281.1	288.2	275.6	268.4	260.9	258.0
57.5°	2607.2	2062.8	608.5	268.4	258.2	270.2	284.9	276.4	270.4	263.1	260.4
60°	2789.6	2146.2	514.4	244.2	242.0	258.2	276.9	269.8	262.0	262.2	261.8
62.5°	2874.8	2141.8	410.6	222.6	225.7	242.0	264.0	259.3	252.9	261.5	262.2
65°	2827.0	2035.0	319.6	203.1	208.4	225.1	250.6	254.2	256.4	273.1	275.3
67.5°	2626.4	1827.3	247.5	185.9	192.6	213.5	252.0	276.9	279.8	297.4	297.1
69°	2418.9	1632.4	215.1	177.0	184.8	216.4	269.3	291.3	280.5	299.1	296.5
70°	2245.0	1478.3	197.7	171.0	181.3	221.5	280.9	291.1	277.1	293.1	288.7
72.5°	1729.0	1063.5	167.7	159.9	169.2	212.0	284.2	284.7	269.3	272.4	264.9
75°	1185.9	672.1	146.3	144.8	151.0	191.0	273.6	272.0	249.1	244.6	238.4
77.5°	653.9	341.4	124.3	130.3	134.6	169.2	248.6	246.4	227.5	218.2	216.0
80°	252.2	149.5	105.0	115.9	118.5	146.6	218.0	216.0	200.2	188.2	184.8
82.5°	95.2	78.3	86.7	100.3	99.4	121.0	184.6	183.5	168.1	150.6	145.2
85°	44.0	46.9	68.7	82.7	76.3	89.6	147.7	149.7	131.0	110.1	110.1
87.5°	18.7	26.2	48.7	62.5	51.4	60.5	108.3	103.4	95.0	65.8	61.8
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)