

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: P318215

Luminaire Tested: **GAN-SA1D-827-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318215
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1D-827-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5860 lumens
Efficiency: N/A
Efficacy: 87.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

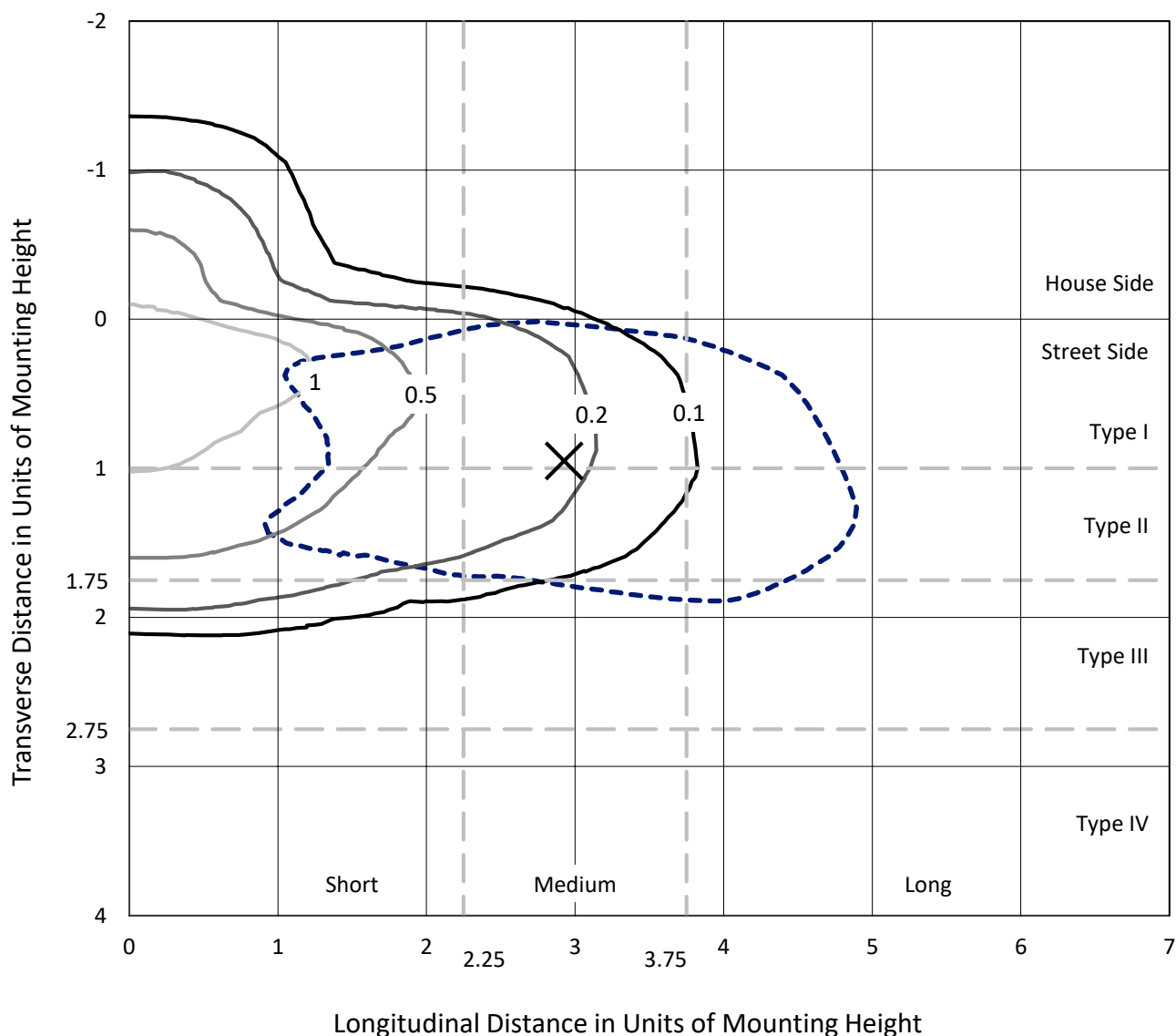
Input Watts (W): 67
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

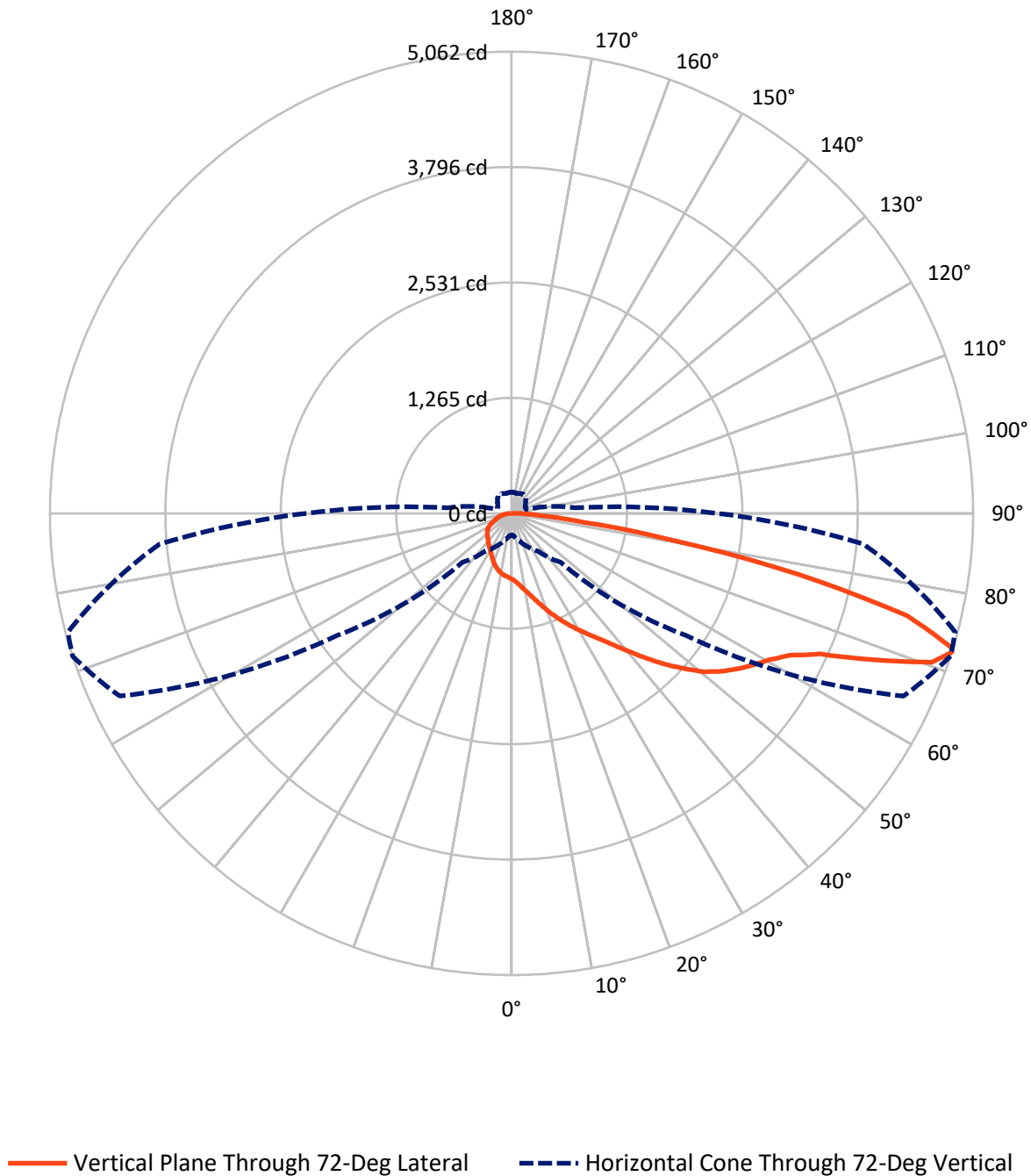
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1087.1	0.0	1087.1
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	4772.9	0.0	4772.9
	% Fixture	81.4	0.0	81.4
Total	Lumens	5860.0	0.0	5860.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.2	1.2
10°-20°	233.4	4.0
20°-30°	409.1	7.0
30°-40°	606.5	10.4
40°-50°	887.1	15.1
50°-60°	1220.6	20.8
60°-70°	1358.9	23.2
70°-80°	920.8	15.7
80°-90°	151.3	2.6
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°	5860.0	100.0
0°-180°	5860.0	100.0

Coefficient of Utilization



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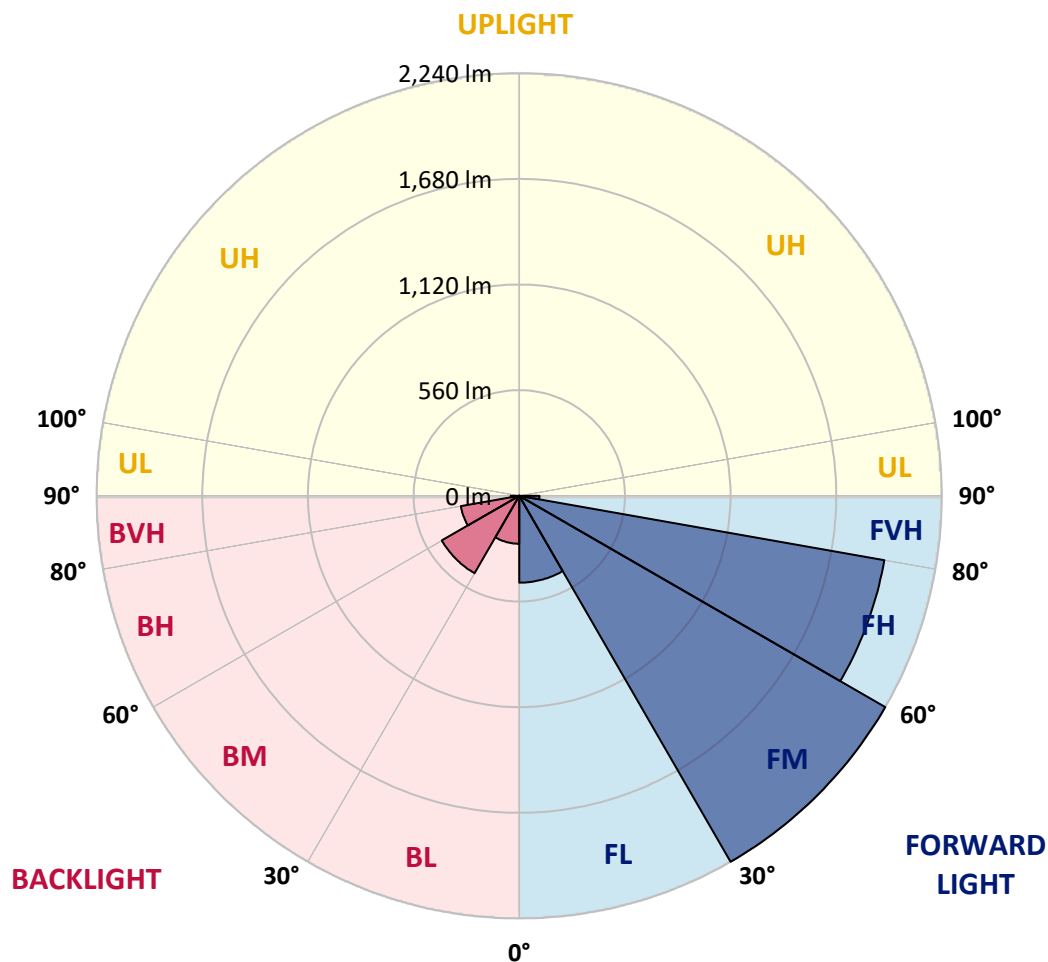
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	460.6	7.9			
FM	(30°-60°)	2240.3	38.2			
FH	(60°-80°)	1965.2	33.5			G2/5000
FVH	(80°-90°)	106.8	1.8			G2/225
BL	(0°-30°)	254.1	4.3	B1/500		
BM	(30°-60°)	473.9	8.1	B1/1000		
BH	(60°-80°)	314.5	5.4	B1/500		G1/500
BVH	(80°-90°)	44.6	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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	720.9	720.9	720.9	720.9	720.9	720.9	720.9	720.9	720.9	720.9	720.9
2.5°	796.4	795.2	790.9	790.9	782.9	776.0	763.1	754.4	744.1	740.5	728.4
5°	873.5	873.9	868.6	865.0	853.1	838.6	816.6	796.6	776.6	768.6	743.7
7.5°	938.2	937.4	936.0	933.0	921.9	907.0	877.3	847.6	818.2	806.1	763.3
10°	979.8	981.6	982.8	984.2	979.6	968.9	940.9	904.7	866.2	849.7	786.7
12.5°	1000.8	1004.0	1009.7	1019.4	1027.0	1025.8	1005.4	967.1	921.3	900.5	816.0
15°	1013.1	1017.3	1026.2	1043.6	1065.2	1077.5	1072.0	1037.3	986.3	960.6	851.7
17.5°	1020.8	1024.2	1037.9	1061.1	1093.2	1125.9	1140.2	1111.2	1059.7	1030.5	892.6
20°	1026.0	1028.6	1045.8	1073.0	1114.6	1166.6	1206.6	1199.3	1140.6	1102.7	935.4
22.5°	1037.7	1039.9	1056.3	1083.7	1129.7	1196.9	1270.6	1281.5	1226.0	1183.0	981.2
25°	1070.4	1070.4	1084.1	1103.3	1146.5	1223.1	1324.6	1372.9	1313.1	1263.1	1023.6
27.5°	1132.8	1132.1	1137.2	1143.8	1176.5	1249.8	1372.9	1453.6	1403.5	1348.8	1064.8
30°	1206.6	1210.6	1211.2	1208.0	1223.3	1283.1	1417.5	1538.7	1494.5	1435.6	1106.9
32.5°	1301.6	1304.3	1301.2	1290.5	1288.3	1330.3	1461.2	1627.9	1593.0	1526.2	1145.5
35°	1422.3	1417.2	1407.8	1386.0	1365.2	1393.4	1511.3	1717.1	1703.6	1635.8	1198.5
37.5°	1551.6	1551.8	1540.1	1490.7	1462.0	1474.1	1580.3	1818.2	1837.3	1766.1	1266.5
40°	1655.3	1660.8	1668.1	1603.1	1566.0	1582.7	1668.1	1935.4	1995.5	1920.7	1355.1
42.5°	1727.8	1734.0	1754.6	1713.9	1675.3	1706.4	1771.4	2060.5	2173.1	2099.0	1458.8
45°	1804.5	1807.9	1822.4	1804.9	1780.2	1850.3	1887.8	2190.0	2360.9	2289.1	1574.8
47.5°	1885.2	1888.8	1903.7	1892.0	1879.1	1984.6	2009.2	2312.1	2540.9	2497.9	1698.7
50°	1984.8	1987.3	2001.4	1980.2	1984.2	2085.9	2117.8	2424.1	2729.6	2685.6	1823.0
52.5°	2120.8	2121.4	2141.0	2121.8	2102.9	2160.2	2211.2	2529.6	2877.5	2856.7	1947.3
55°	2227.4	2233.8	2298.0	2294.0	2283.1	2227.6	2289.3	2630.1	3009.4	3019.3	2079.3
57.5°	2159.4	2184.6	2314.5	2406.1	2495.3	2395.2	2394.8	2743.3	3132.1	3178.9	2224.3
60°	1891.2	1925.5	2117.0	2320.2	2599.2	2687.0	2614.0	2881.5	3256.0	3337.1	2406.1
62.5°	1350.7	1407.2	1666.6	1991.1	2456.8	2880.3	3059.9	3100.8	3424.5	3520.3	2642.4
65°	682.8	725.6	943.1	1333.9	1962.8	2754.0	3544.5	3581.1	3717.3	3802.4	3006.2
67.5°	414.8	431.0	537.1	741.9	1203.4	2145.2	3702.7	4381.5	4283.8	4329.0	3525.0
70°	305.7	317.6	383.8	492.7	692.1	1258.9	3217.3	4952.7	4888.5	4883.5	3908.3
72°	238.1	246.8	305.3	398.1	506.0	755.2	2331.9	4741.9	5061.7	5036.2	3873.2
72.5°	225.8	233.5	286.7	374.7	478.2	684.6	2096.6	4599.6	5049.2	5037.7	3827.8
75°	177.8	183.2	212.3	289.7	374.3	388.4	1148.9	3564.5	4479.1	4665.4	3442.8
77.5°	147.1	147.9	163.2	210.9	291.8	274.6	564.4	2473.1	3207.4	3412.2	2438.8
80°	119.9	120.9	128.1	147.9	220.7	203.2	268.0	1422.1	1795.8	1798.0	1159.8
82.5°	95.4	95.6	103.7	108.2	158.6	145.3	153.5	667.7	784.7	754.8	416.9
85°	67.2	65.8	101.3	88.8	103.7	93.2	84.7	264.3	324.5	310.3	130.5
87.5°	22.4	23.2	45.0	57.5	60.5	52.9	37.7	101.3	122.5	121.5	41.4
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°	720.9	720.9	720.9	720.9	720.9	720.9	720.9	720.9	720.9	720.9	720.9
2.5°	724.6	718.1	708.6	698.1	689.9	681.4	675.1	671.9	668.3	665.2	668.9
5°	732.2	720.1	699.9	680.2	665.6	652.7	643.5	638.6	634.2	631.1	631.5
7.5°	744.7	725.2	691.3	662.4	642.2	628.3	618.8	615.6	612.8	612.0	613.0
10°	758.1	729.2	679.8	641.4	618.4	606.9	602.7	604.9	606.9	608.7	610.8
12.5°	773.2	732.8	663.0	616.8	597.2	592.8	597.0	606.7	613.8	618.0	620.7
15°	793.0	736.1	643.7	592.2	579.1	584.1	598.5	615.2	627.5	635.4	636.6
17.5°	811.1	735.9	618.8	567.4	564.4	579.1	600.7	624.3	640.8	651.9	654.1
20°	829.9	730.4	590.0	543.2	549.4	573.6	601.7	630.1	650.1	663.0	666.1
22.5°	847.4	720.9	558.3	521.2	536.9	566.4	597.9	626.7	646.7	657.2	660.4
25°	859.3	704.4	526.2	502.6	525.8	557.5	585.3	608.5	623.5	628.7	629.5
27.5°	865.4	682.8	496.0	486.5	514.3	543.0	562.1	573.6	577.9	577.5	576.7
30°	866.2	654.3	469.9	473.4	501.0	521.6	530.7	528.4	523.0	513.7	514.5
32.5°	863.6	622.3	448.1	460.8	484.1	495.6	496.0	485.3	470.7	456.0	452.0
35°	864.4	590.8	429.0	446.7	463.5	468.5	463.9	448.1	428.4	409.4	405.4
37.5°	873.3	563.3	412.4	430.4	440.7	441.9	435.2	418.7	404.2	385.6	384.0
40°	894.5	543.8	396.7	412.0	417.9	418.5	409.0	397.3	398.5	388.6	388.4
42.5°	932.6	535.3	382.8	392.9	396.5	397.7	390.4	383.0	393.5	387.0	384.8
45°	981.8	537.3	371.1	374.1	380.7	386.4	382.0	372.9	376.9	348.9	339.6
47.5°	1038.7	550.2	361.8	357.9	369.4	380.1	373.3	359.6	345.2	317.4	312.1
50°	1105.3	570.2	353.3	342.0	357.1	371.7	364.8	345.2	323.6	310.1	308.3
52.5°	1174.7	594.6	344.8	324.5	341.6	365.2	361.8	342.0	315.4	302.1	299.6
55°	1253.4	619.2	334.1	304.1	324.9	362.2	360.4	330.3	309.1	301.6	299.8
57.5°	1351.3	647.3	320.0	282.9	309.1	351.3	345.6	323.2	302.7	297.0	296.4
60°	1478.8	688.6	299.6	260.3	289.9	334.5	333.3	312.9	292.4	288.3	287.5
62.5°	1670.1	757.1	271.6	237.7	268.6	306.1	317.2	299.0	281.5	281.3	281.7
65°	1966.7	860.0	241.1	217.9	247.0	282.1	298.4	284.7	270.4	274.4	275.0
67.5°	2310.5	945.3	211.3	198.5	225.0	259.3	281.5	270.4	255.6	266.1	266.3
70°	2424.9	869.0	185.0	179.4	202.2	237.3	263.1	254.6	239.7	250.2	249.2
72°	2256.6	701.6	168.1	164.8	185.0	219.1	246.8	239.9	225.2	232.2	229.6
72.5°	2203.6	668.9	163.8	161.2	180.4	214.5	242.5	236.3	221.5	227.6	225.2
75°	1965.7	580.9	140.8	141.4	157.4	191.9	218.7	216.7	201.6	202.2	201.4
77.5°	1425.7	425.9	118.6	122.7	134.0	168.7	194.7	193.5	177.0	173.9	173.3
80°	661.6	217.3	96.6	98.5	110.2	141.0	166.1	164.4	151.1	147.3	145.1
82.5°	226.6	103.3	72.6	73.8	85.3	113.6	144.1	143.1	132.0	124.5	119.9
85°	80.9	51.5	50.8	49.6	60.9	89.4	125.5	120.1	103.7	88.4	88.0
87.5°	26.2	22.0	26.2	26.0	35.5	60.5	91.2	77.7	75.3	62.5	61.3
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)