

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: P320895

Luminaire Tested: **GAN-SA1D-727-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320895
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-29)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1D-727-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 1200mA LIGHTSQUARE WITH 16 LEDS AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6970 lumens
Efficiency: N/A
Efficacy: 104.0 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

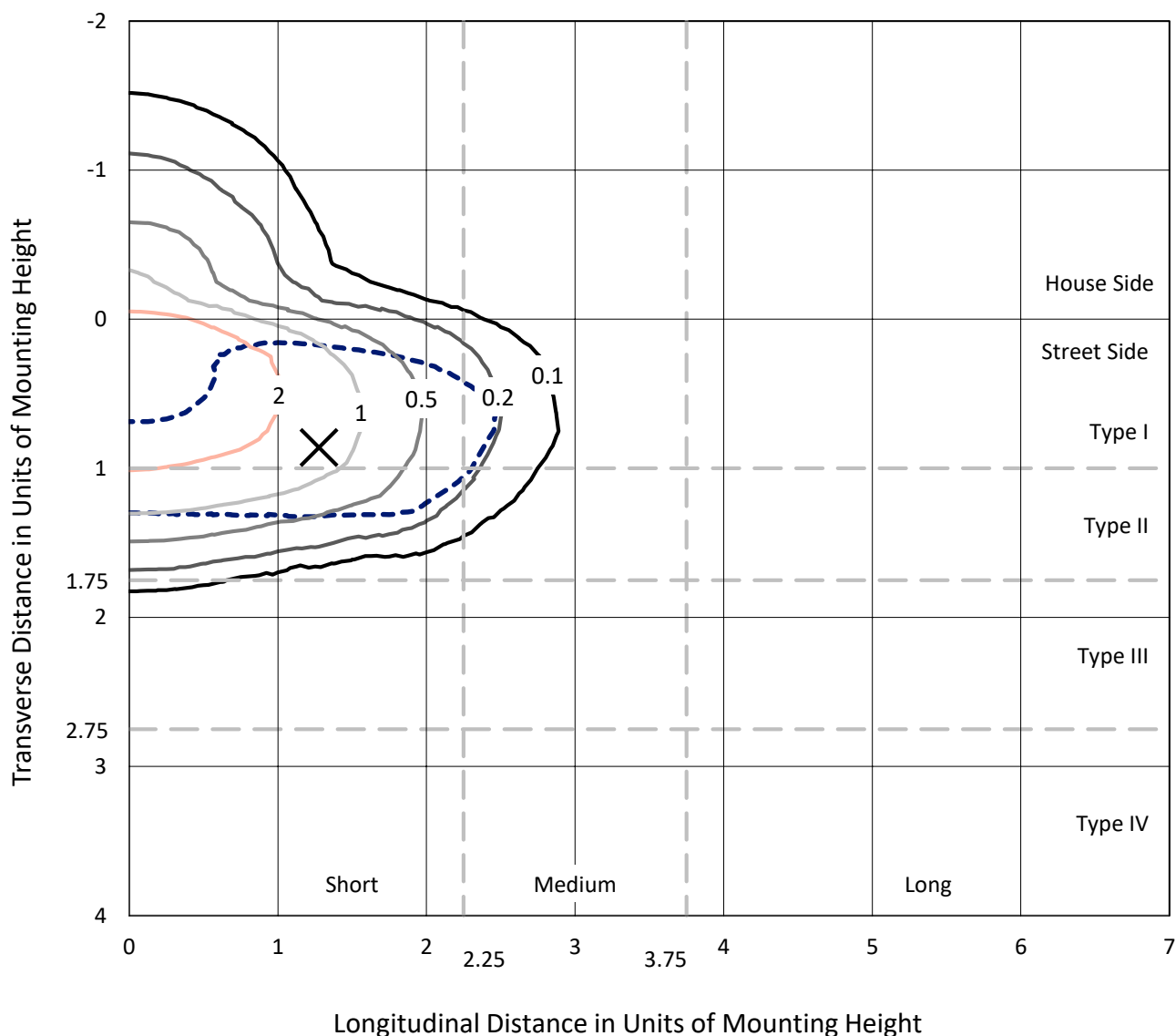
Input Watts (W): 67
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

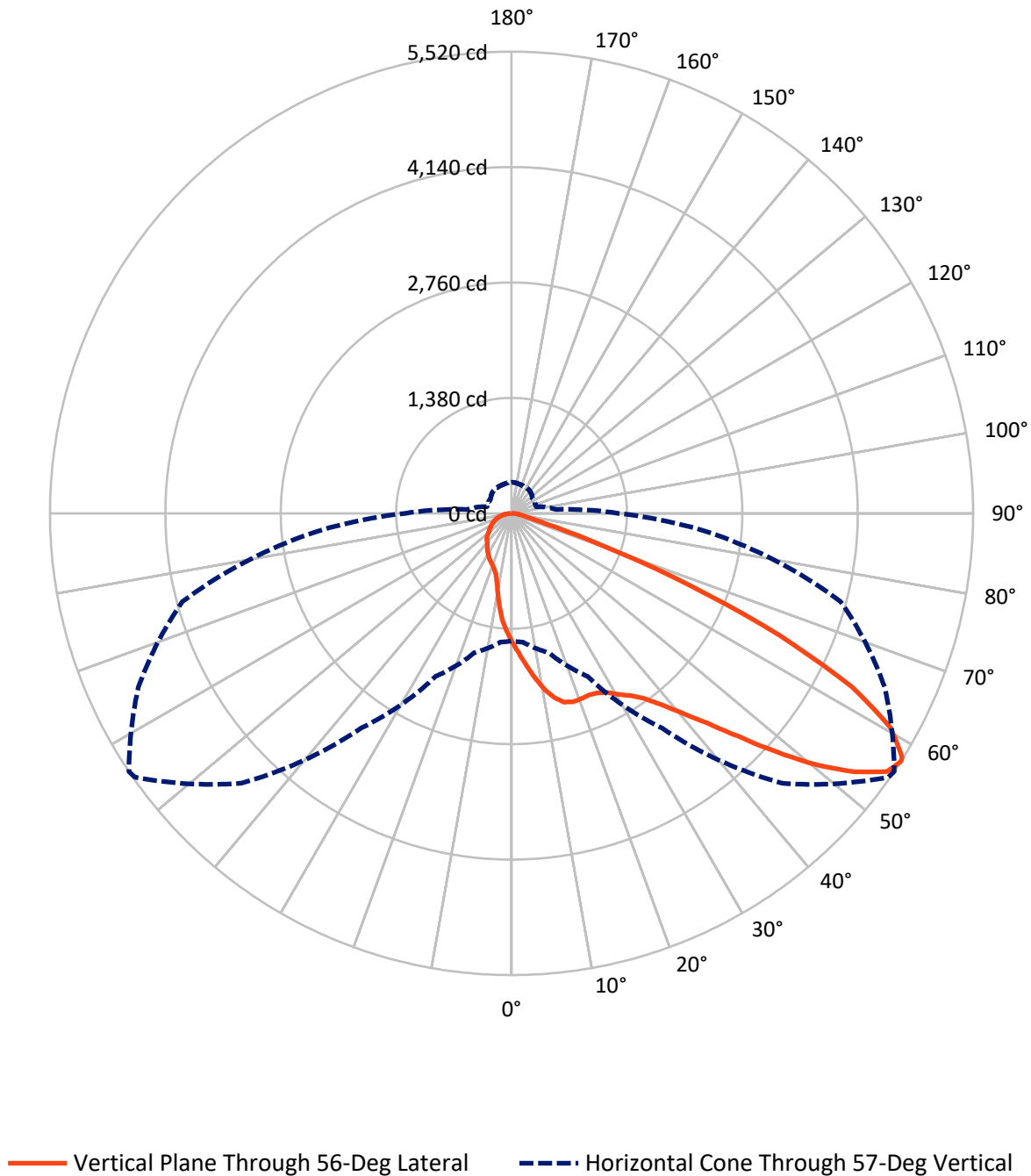
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 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	1201.5	0.0	1201.5
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	5768.5	0.0	5768.5
	% Fixture	82.8	0.0	82.8
Total	Lumens	6970.0	0.0	6970.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.7	2.1
10°-20°	417.5	6.0
20°-30°	680.1	9.8
30°-40°	1016.6	14.6
40°-50°	1542.0	22.1
50°-60°	1728.3	24.8
60°-70°	1020.8	14.6
70°-80°	334.5	4.8
80°-90°	82.6	1.2
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°	6970.0	100.0
0°-180°	6970.0	100.0

Coefficient of Utilization



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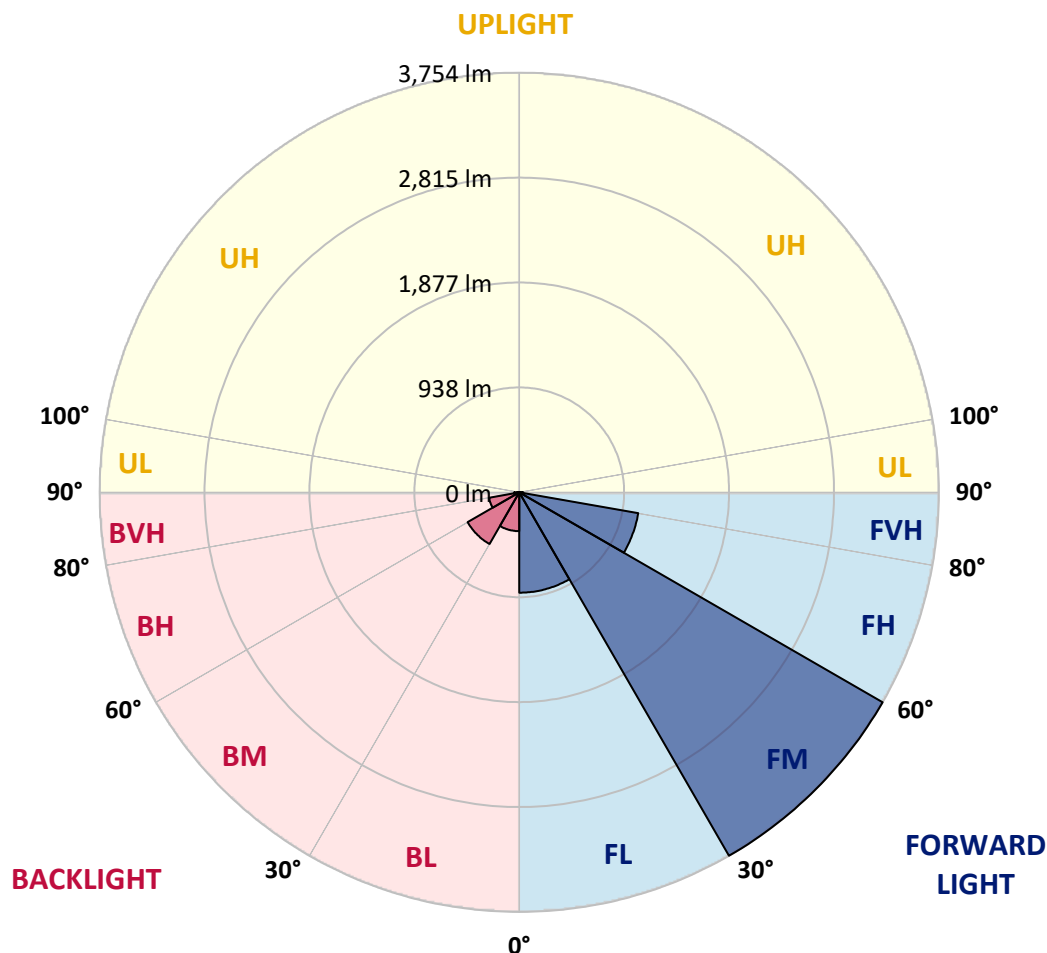
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	897.8	12.9			
FM	(30°-60°)	3753.6	53.9			
FH	(60°-80°)	1080.7	15.5			G1/1800
FVH	(80°-90°)	36.4	0.5			G1/100
BL	(0°-30°)	347.4	5.0	B1/500		
BM	(30°-60°)	533.3	7.7	B1/1000		
BH	(60°-80°)	274.5	3.9	B1/500		G1/500
BVH	(80°-90°)	46.2	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°	56°	65°	75°	85°
0°	1546.0	1546.0	1546.0	1546.0	1546.0	1546.0	1546.0	1546.0	1546.0	1546.0	1546.0
2.5°	1775.2	1791.5	1784.3	1759.4	1740.2	1713.1	1683.0	1673.9	1642.0	1606.3	1563.4
5°	2056.2	2048.0	2036.3	1997.5	1956.5	1908.8	1833.2	1821.2	1750.3	1669.6	1584.3
7.5°	2216.2	2215.4	2208.5	2185.7	2148.4	2086.1	1994.8	1980.7	1873.6	1743.8	1611.6
10°	2192.9	2191.3	2202.8	2226.5	2237.7	2224.8	2147.9	2133.8	2002.3	1826.0	1643.2
12.5°	2061.0	2061.9	2080.4	2130.2	2198.0	2279.4	2266.9	2260.0	2135.7	1918.9	1681.5
15°	1958.2	1960.3	1975.0	2018.3	2098.3	2246.1	2339.3	2341.7	2264.8	2021.4	1726.3
17.5°	1913.2	1917.7	1924.4	1954.8	2028.1	2179.8	2356.5	2369.5	2377.9	2127.8	1769.4
20°	1927.5	1931.8	1933.8	1953.2	2013.3	2139.5	2344.6	2367.8	2464.6	2227.9	1812.6
22.5°	1992.0	1994.6	1995.8	2000.8	2047.5	2151.0	2336.7	2361.1	2527.3	2317.7	1845.1
25°	2098.8	2096.9	2089.2	2082.7	2114.1	2196.5	2354.9	2378.1	2578.3	2399.2	1866.4
27.5°	2226.7	2224.3	2209.5	2191.7	2209.7	2267.4	2407.3	2425.8	2624.1	2475.3	1877.2
30°	2380.2	2374.0	2346.0	2324.9	2331.9	2373.8	2493.8	2510.6	2694.8	2561.8	1887.8
32.5°	2557.7	2551.0	2510.6	2475.6	2475.6	2510.6	2582.9	2596.8	2754.6	2659.5	1904.8
35°	2780.0	2771.6	2719.0	2660.3	2643.7	2661.5	2704.3	2714.2	2862.4	2782.7	1935.7
37.5°	3042.1	3030.8	2962.6	2884.0	2847.8	2846.9	2877.8	2897.9	3034.7	2944.4	1988.1
40°	3304.9	3296.9	3237.3	3175.5	3104.6	3081.8	3129.5	3135.7	3259.8	3145.1	2055.2
42.5°	3508.0	3506.5	3495.5	3503.7	3431.1	3385.1	3422.5	3427.5	3534.8	3362.3	2126.6
45°	3615.3	3617.7	3671.1	3789.4	3816.3	3782.7	3801.2	3802.6	3849.1	3581.5	2192.0
47.5°	3529.3	3541.7	3676.8	3941.5	4161.2	4272.6	4241.9	4259.6	4153.8	3769.8	2243.2
50°	3194.2	3209.5	3439.5	3873.7	4322.2	4746.6	4730.6	4726.5	4399.5	3907.8	2271.0
52.5°	2779.1	2791.1	2980.8	3521.4	4204.1	5008.7	5156.0	5134.9	4618.0	4011.0	2276.3
55°	2146.9	2165.6	2347.4	2818.1	3726.4	4908.5	5468.8	5449.9	4817.0	4065.1	2270.1
57°	1526.3	1546.0	1726.6	2150.8	3134.8	4561.9	5499.9	5520.1	4924.6	4074.2	2277.0
57.5°	1362.0	1382.1	1561.0	1973.0	2950.3	4436.6	5473.1	5506.6	4944.0	4072.8	2280.8
60°	685.8	693.5	807.5	1101.4	1865.0	3586.8	5123.2	5209.6	4961.5	4002.4	2297.4
62.5°	426.4	420.9	417.3	507.3	907.4	2378.6	4401.0	4567.4	4626.8	3831.8	2257.4
65°	374.9	364.6	325.0	317.9	400.7	1155.3	3314.2	3521.4	3911.8	3563.1	2162.0
67.5°	352.1	342.1	297.5	270.7	270.9	458.0	2057.6	2290.9	3047.4	3108.7	1937.1
70°	328.6	319.5	277.9	246.2	230.7	253.7	946.6	1123.7	1986.5	2443.5	1619.0
72.5°	298.5	292.2	252.7	220.1	203.6	190.0	362.4	428.0	1150.0	1641.0	1124.4
75°	266.8	261.1	227.3	196.2	176.1	149.5	204.1	219.9	584.2	839.6	553.6
77.5°	232.1	228.8	202.2	173.4	157.4	123.8	144.4	152.1	250.6	360.0	277.6
80°	184.7	191.1	176.8	154.5	139.6	99.2	102.3	107.3	145.9	175.8	157.6
82.5°	120.2	131.5	138.5	125.5	115.0	78.1	73.5	75.7	95.1	107.3	68.5
85°	50.1	56.3	91.0	82.2	76.4	57.0	49.3	50.3	58.9	61.1	28.0
87.5°	22.3	23.7	40.0	37.6	32.3	19.6	21.1	23.0	31.4	29.7	10.8
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°	1546.0	1546.0	1546.0	1546.0	1546.0	1546.0	1546.0	1546.0	1546.0	1546.0	1546.0
2.5°	1547.4	1527.3	1492.8	1454.7	1423.6	1398.6	1373.5	1356.2	1336.1	1325.3	1319.8
5°	1548.6	1509.1	1436.5	1362.0	1295.4	1234.6	1176.6	1132.0	1090.4	1067.8	1061.6
7.5°	1553.6	1494.2	1376.8	1254.2	1135.9	1027.8	944.5	892.3	854.7	837.9	833.1
10°	1557.7	1476.7	1303.1	1121.5	960.5	851.1	786.4	757.2	744.2	742.1	739.9
12.5°	1567.3	1458.8	1225.5	983.0	824.2	748.5	726.0	724.1	727.7	733.0	733.0
15°	1582.4	1441.0	1136.8	864.2	737.5	710.9	715.5	726.0	735.8	744.0	745.2
17.5°	1593.4	1419.2	1041.5	769.1	691.3	698.5	714.8	729.6	739.7	747.6	748.3
20°	1601.3	1385.5	939.7	696.6	664.7	687.0	707.3	720.5	727.5	735.4	736.6
22.5°	1597.2	1340.2	849.4	644.6	643.1	670.2	689.6	705.4	700.2	692.5	697.5
25°	1577.6	1277.9	756.4	605.8	620.4	647.7	671.7	661.1	643.4	640.0	642.0
27.5°	1542.6	1198.4	670.5	569.9	594.0	626.9	625.4	614.9	608.7	604.3	607.0
30°	1505.0	1112.2	595.2	538.5	564.8	591.9	586.4	586.1	579.9	573.0	576.3
32.5°	1467.9	1025.4	535.6	512.6	542.8	546.4	558.4	561.9	549.7	535.1	534.2
35°	1435.5	943.5	490.3	489.1	516.2	516.7	534.2	529.1	498.7	483.6	483.6
37.5°	1411.3	861.8	455.8	468.0	481.2	493.7	502.5	481.7	476.7	468.3	468.0
40°	1400.8	790.0	434.3	452.0	456.6	472.4	449.6	457.7	460.1	455.8	455.8
42.5°	1389.8	727.5	415.6	439.8	439.1	436.9	425.4	436.0	445.5	445.8	445.1
45°	1378.8	673.6	399.1	413.7	423.7	400.5	402.7	413.9	427.3	432.1	432.1
47.5°	1366.5	630.9	384.0	386.1	401.7	386.1	384.5	393.1	408.9	416.5	418.2
50°	1339.7	592.6	366.7	361.9	366.2	371.5	373.0	377.0	394.5	406.7	409.6
52.5°	1302.6	558.4	344.7	339.7	339.7	359.5	366.2	367.4	382.3	396.9	399.8
55°	1271.7	536.6	321.9	321.0	320.0	346.8	358.3	360.3	370.6	382.1	383.5
57°	1273.8	534.9	304.4	305.4	305.2	333.9	350.9	355.0	360.3	370.1	371.8
57.5°	1275.0	536.1	300.6	301.1	300.9	330.3	348.8	353.3	357.4	367.7	369.4
60°	1293.0	539.2	285.0	279.8	281.0	311.2	336.5	342.3	344.9	358.6	360.7
62.5°	1266.4	525.3	272.6	259.9	259.9	291.0	319.5	328.6	332.7	351.2	354.7
65°	1189.3	486.3	258.0	237.4	239.8	270.9	299.2	314.0	320.3	343.3	347.1
67.5°	1070.2	441.0	242.4	217.3	219.7	249.8	278.1	294.1	304.0	334.6	337.7
70°	915.3	385.6	221.3	195.9	198.8	226.8	253.2	271.4	286.0	326.5	327.4
72.5°	674.8	316.2	191.9	172.5	175.6	200.0	228.0	249.1	268.8	306.1	305.6
75°	401.2	247.2	159.3	148.8	150.9	173.7	205.3	230.9	260.4	298.2	302.8
77.5°	243.4	186.1	129.8	124.6	127.2	150.4	189.0	216.3	256.8	281.2	279.8
80°	147.1	132.9	103.7	100.4	103.0	128.6	174.9	205.3	224.4	240.3	240.3
82.5°	76.9	81.2	76.2	73.5	77.1	104.4	159.1	179.2	198.3	170.3	159.1
85°	31.4	42.4	46.2	46.0	48.1	72.3	137.3	153.3	127.9	121.4	124.3
87.5°	10.5	18.0	22.5	19.4	20.4	45.5	95.1	74.0	87.9	61.3	58.2
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)