

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: P319135

Luminaire Tested: **GAN-SA1D-760-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319135
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1D-760-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5700K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8067 lumens
Efficiency: N/A
Efficacy: 120.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

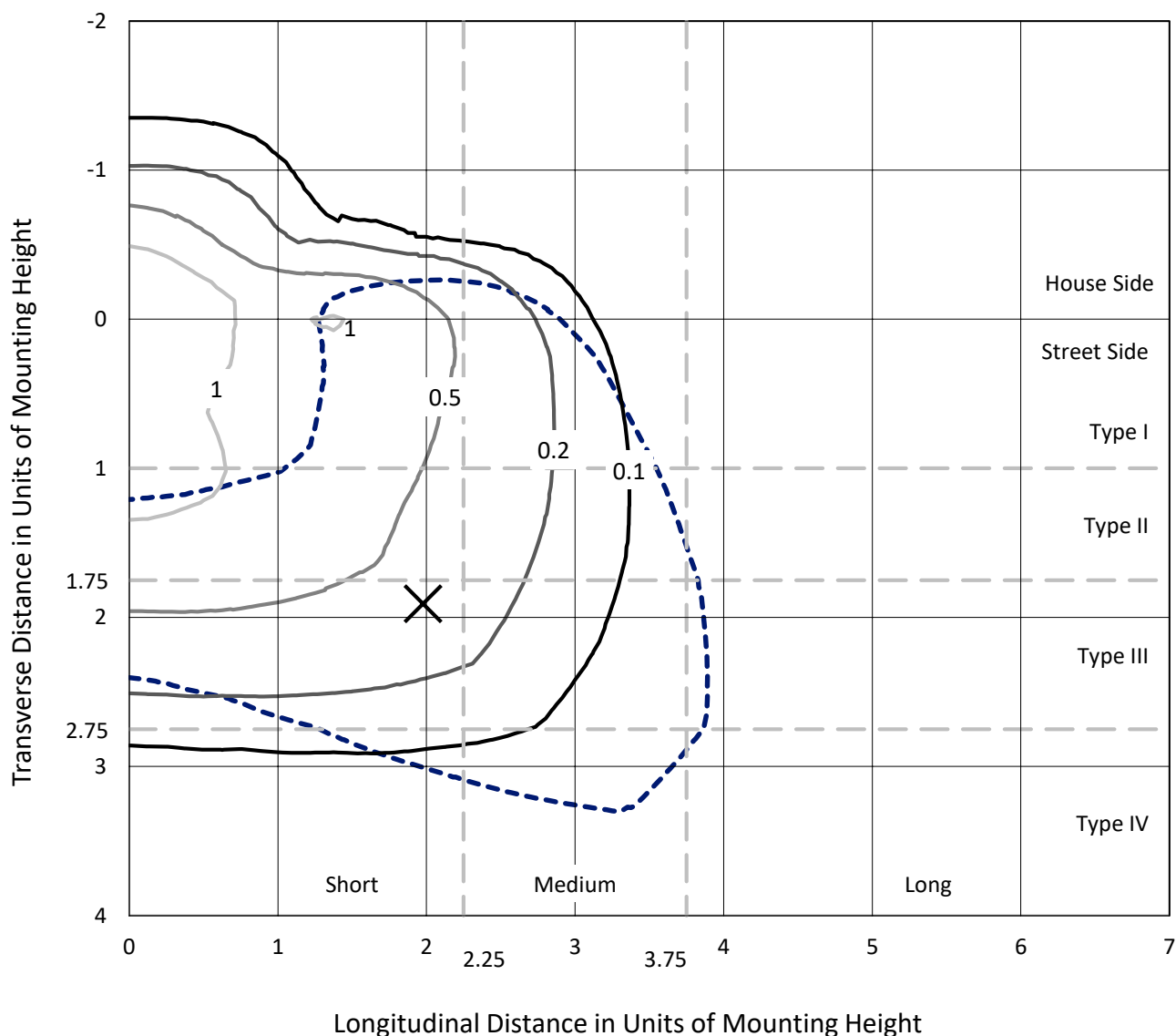
Input Watts (W): 67
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

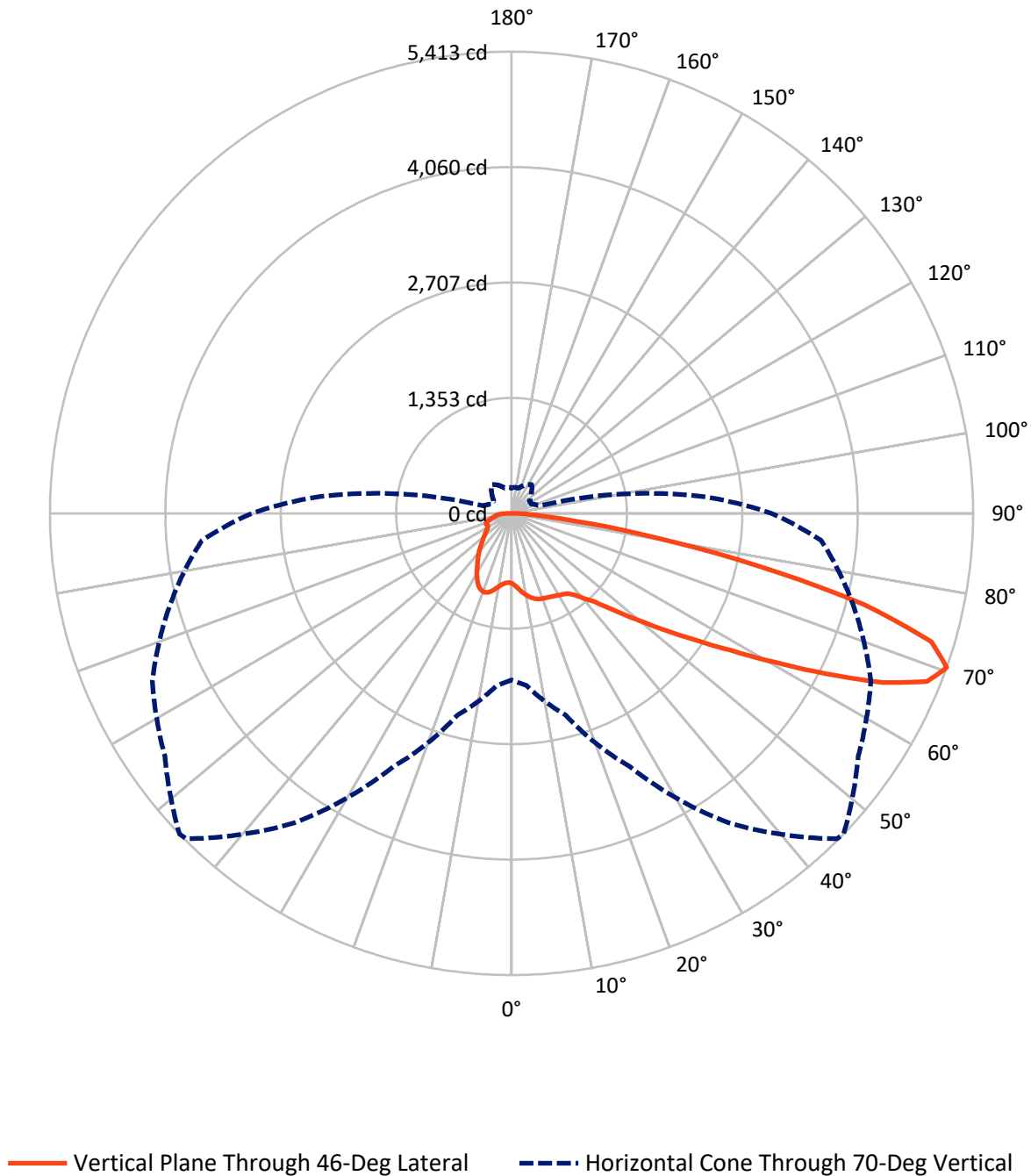
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1848.9	0.0	1848.9
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	6218.1	0.0	6218.1
	% Fixture	77.1	0.0	77.1
Total	Lumens	8067.0	0.0	8067.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.8	1.0
10°-20°	279.1	3.5
20°-30°	465.4	5.8
30°-40°	660.5	8.2
40°-50°	971.5	12.0
50°-60°	1645.3	20.4
60°-70°	2335.5	29.0
70°-80°	1418.8	17.6
80°-90°	207.1	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°	8067.0	100.0
0°-180°	8067.0	100.0

Coefficient of Utilization



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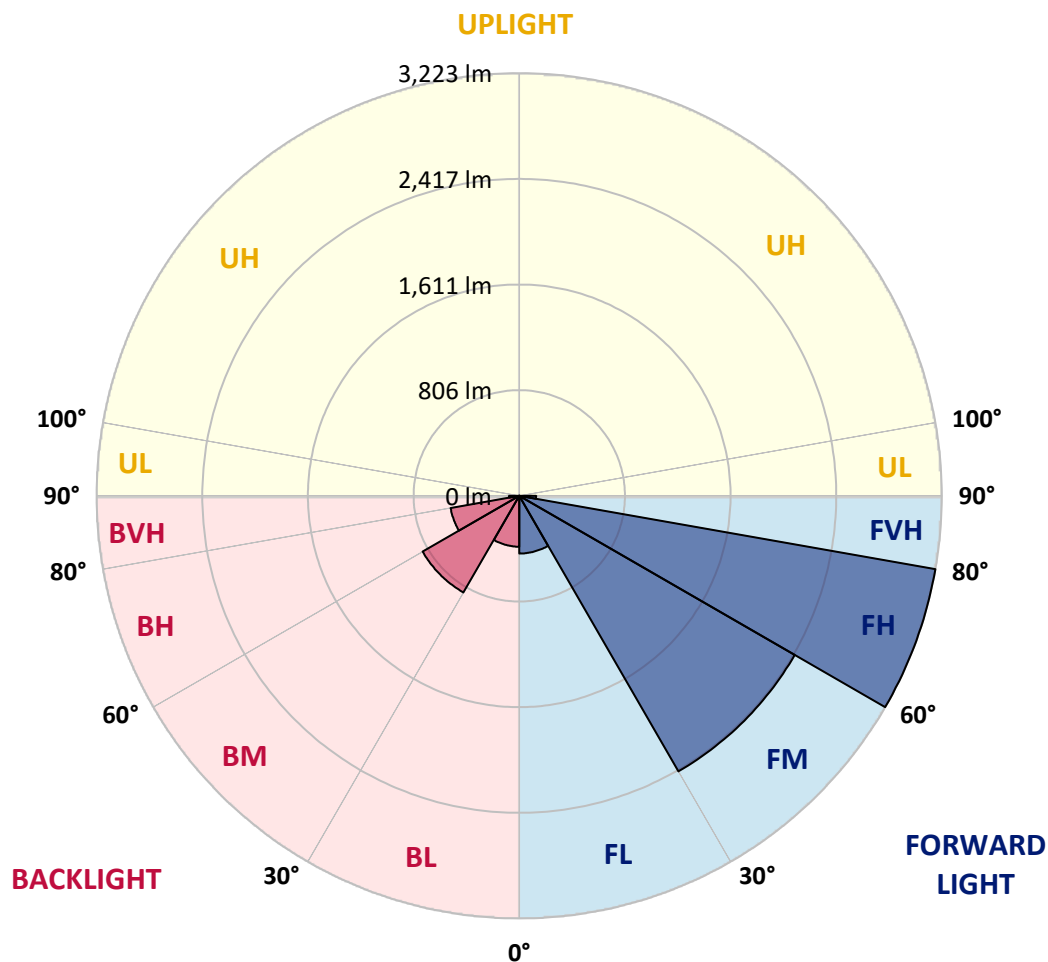
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	440.2	5.5			
FM	(30°-60°)	2426.2	30.1			
FH	(60°-80°)	3222.7	39.9			G2/5000
FVH	(80°-90°)	129.0	1.6			G2/225
BL	(0°-30°)	388.2	4.8	B1/500		
BM	(30°-60°)	851.1	10.6	B1/1000		
BH	(60°-80°)	531.6	6.6	B2/1000		G2/1000
BVH	(80°-90°)	78.1	1.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	821.9	821.9	821.9	821.9	821.9	821.9	821.9	821.9	821.9	821.9	821.9
2.5°	863.0	863.6	864.7	861.9	854.2	852.0	851.1	843.1	837.9	830.2	823.5
5°	932.0	932.6	930.9	923.2	906.1	893.4	892.3	874.0	857.5	839.8	826.6
7.5°	1004.1	1004.9	999.7	985.0	961.0	938.9	937.5	912.7	887.6	860.8	840.9
10°	1067.9	1064.5	1056.0	1035.5	1007.1	980.1	979.0	953.0	924.0	891.7	865.2
12.5°	1110.4	1107.6	1096.6	1071.7	1040.5	1015.7	1013.5	989.4	961.3	925.9	894.2
15°	1133.8	1135.8	1120.9	1092.7	1062.3	1041.3	1039.4	1022.3	997.2	961.6	925.1
17.5°	1136.9	1138.5	1124.2	1096.3	1071.4	1057.1	1056.3	1044.9	1026.7	992.5	954.4
20°	1119.2	1120.3	1108.4	1085.5	1069.2	1064.8	1064.5	1059.6	1046.0	1015.7	978.7
22.5°	1093.5	1094.4	1085.8	1069.2	1063.7	1070.6	1072.5	1070.6	1060.9	1032.5	997.7
25°	1087.2	1086.6	1077.8	1060.9	1065.6	1080.3	1082.8	1083.6	1077.0	1052.1	1022.0
27.5°	1117.8	1115.9	1099.0	1072.0	1075.0	1092.7	1096.0	1104.0	1099.9	1078.1	1049.6
30°	1206.4	1203.1	1168.6	1114.0	1099.0	1108.2	1112.3	1125.0	1125.8	1107.6	1086.3
32.5°	1356.1	1351.9	1290.1	1192.4	1139.6	1123.9	1127.8	1146.8	1157.0	1142.9	1120.0
35°	1545.2	1540.5	1459.3	1325.7	1207.5	1154.0	1156.7	1171.9	1192.4	1172.5	1142.1
37.5°	1742.3	1731.0	1652.8	1482.5	1315.5	1218.3	1218.3	1220.2	1229.9	1188.5	1168.1
40°	1938.3	1927.0	1856.3	1666.9	1455.2	1319.6	1313.3	1270.5	1262.8	1227.1	1220.2
42.5°	2120.5	2117.2	2075.5	1875.4	1619.2	1419.3	1410.5	1337.8	1339.5	1317.4	1317.7
45°	2314.3	2314.3	2280.4	2085.7	1810.2	1579.4	1570.6	1463.7	1480.3	1470.1	1494.7
47.5°	2472.5	2477.5	2472.8	2304.9	2032.4	1782.9	1766.9	1638.2	1684.6	1719.7	1791.2
50°	2634.0	2641.7	2642.6	2545.4	2301.1	2024.7	2006.5	1869.8	1973.4	2073.9	2214.4
52.5°	2868.4	2885.8	2816.5	2785.3	2630.1	2311.8	2293.9	2167.7	2340.5	2481.6	2723.7
55°	3085.7	3070.5	3021.1	3040.4	2982.4	2638.7	2625.2	2514.5	2749.7	2933.0	3247.4
57.5°	3203.3	3202.2	3251.9	3334.7	3362.3	3041.8	3030.5	2922.8	3211.0	3348.8	3739.1
60°	3341.3	3343.2	3466.4	3654.4	3768.1	3543.7	3538.7	3457.0	3659.1	3736.9	4124.8
62.5°	3360.6	3395.4	3607.4	3931.0	4148.0	4130.1	4141.1	3938.2	4059.9	4046.7	4412.8
65°	3138.4	3184.2	3568.0	4014.7	4525.7	4771.4	4781.6	4422.1	4376.0	4311.4	4515.7
67.5°	2682.9	2750.8	3167.7	3832.7	4650.2	5245.4	5259.7	4797.3	4638.3	4401.2	4267.8
70°	1952.4	2027.8	2447.4	3273.4	4428.2	5397.0	5413.2	4963.2	4648.2	4145.8	3643.3
72.5°	1179.4	1238.5	1584.4	2409.8	3737.5	5120.9	5149.9	4752.9	4243.8	3511.6	2690.3
75°	517.9	556.6	766.1	1388.6	2675.7	4236.9	4273.1	4068.2	3448.2	2552.0	1590.2
77.5°	220.6	231.6	314.2	603.2	1512.6	2895.2	2944.9	2972.5	2339.4	1388.6	672.0
80°	137.5	141.9	177.8	273.0	707.9	1626.1	1679.6	1748.9	1161.7	510.5	234.7
82.5°	83.7	88.6	118.2	165.1	368.6	737.1	762.8	811.7	450.8	220.6	121.5
85°	50.2	53.8	72.3	104.4	209.8	289.9	289.6	320.2	212.3	141.9	64.0
87.5°	24.0	26.8	38.7	54.1	105.7	108.8	101.9	115.4	128.9	93.0	32.3
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°	821.9	821.9	821.9	821.9	821.9	821.9	821.9	821.9	821.9	821.9	821.9
2.5°	821.3	820.2	816.6	813.9	813.3	811.7	810.3	811.1	812.2	812.5	812.5
5°	821.0	818.0	813.3	811.4	813.9	817.2	821.3	826.8	830.2	832.6	834.3
7.5°	834.3	828.5	823.2	822.1	827.1	835.9	845.3	856.9	864.9	870.5	871.6
10°	856.4	849.2	844.0	845.1	853.9	866.6	879.8	894.8	906.9	914.4	914.9
12.5°	881.8	874.9	869.9	874.6	889.2	904.7	918.5	931.5	942.5	950.0	950.0
15°	911.0	906.1	900.3	911.0	930.9	944.7	950.5	956.9	962.9	968.5	967.4
17.5°	939.2	934.5	931.5	944.2	964.9	971.2	967.4	962.7	962.7	965.7	966.3
20°	963.5	959.4	961.3	973.7	984.5	977.9	963.5	948.6	942.5	944.2	945.8
22.5°	984.8	982.8	988.6	994.4	986.7	963.5	937.0	916.8	909.4	908.8	909.4
25°	1009.6	1009.3	1016.5	1006.0	971.8	929.0	893.4	873.8	869.6	872.9	878.5
27.5°	1040.5	1043.6	1047.1	1008.8	941.4	876.8	840.6	827.1	831.3	839.3	844.5
30°	1080.0	1088.3	1080.5	1001.9	897.8	817.2	782.7	778.8	790.1	801.4	807.0
32.5°	1118.4	1131.3	1112.6	983.9	841.5	754.0	727.2	726.1	739.9	750.9	758.6
35°	1149.3	1175.0	1136.6	948.3	776.3	695.7	676.1	668.6	673.6	686.6	695.4
37.5°	1189.6	1232.4	1153.2	893.9	705.6	647.7	624.8	607.6	603.2	608.5	612.9
40°	1263.3	1319.9	1160.9	818.0	636.6	599.6	576.4	551.3	533.9	521.2	521.5
42.5°	1383.7	1433.9	1155.9	725.8	572.9	552.7	526.5	497.5	469.3	440.6	438.4
45°	1579.1	1603.4	1141.0	628.1	516.8	503.6	479.0	450.0	412.5	379.9	376.8
47.5°	1891.9	1838.1	1117.8	542.8	467.4	461.9	439.2	405.8	366.1	339.8	337.6
50°	2318.5	2176.8	1106.5	474.8	423.8	425.4	406.9	371.6	334.0	314.7	312.5
52.5°	2828.6	2571.3	1128.3	422.4	388.7	394.5	380.7	347.6	316.1	300.9	298.7
55°	3357.9	2979.9	1151.8	384.3	355.6	366.9	362.2	334.9	306.4	292.4	290.4
57.5°	3810.9	3285.0	1104.8	353.4	326.0	343.7	347.9	326.9	301.5	288.8	286.6
60°	4096.1	3407.8	981.7	324.4	302.6	325.2	339.6	324.7	303.4	302.3	300.6
62.5°	4231.4	3397.1	797.0	301.5	287.9	317.2	345.6	337.1	325.5	335.4	336.3
65°	4170.6	3234.7	593.6	286.3	277.5	320.2	363.9	360.6	331.8	341.8	343.2
67.5°	3770.9	2847.4	439.5	273.0	265.9	328.8	397.0	368.3	319.4	326.6	322.2
70°	3047.8	2257.4	339.0	258.1	254.0	327.7	411.9	363.6	305.9	307.5	295.7
72.5°	2101.7	1539.4	275.8	244.3	236.9	298.7	401.4	352.0	294.6	281.9	266.1
75°	1142.9	826.3	234.4	230.0	206.8	262.3	382.1	343.7	284.4	267.5	258.7
77.5°	449.7	342.9	203.5	210.4	180.8	231.6	360.6	328.0	270.3	248.2	243.8
80°	183.6	175.0	168.7	181.9	155.4	202.6	334.6	309.5	253.4	230.2	221.4
82.5°	104.1	108.8	131.1	143.6	126.2	186.6	322.2	294.6	233.3	206.2	195.7
85°	53.3	63.8	91.4	103.0	92.8	158.7	296.8	257.9	187.2	157.9	158.7
87.5°	25.7	35.6	57.7	64.6	60.2	114.8	221.7	186.9	145.8	115.4	111.8
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)