

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: P321105

Luminaire Tested: **GAN-SA1A-830-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321105
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-SA1A-830-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3979 lumens
Efficiency: N/A
Efficacy: 117.0 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

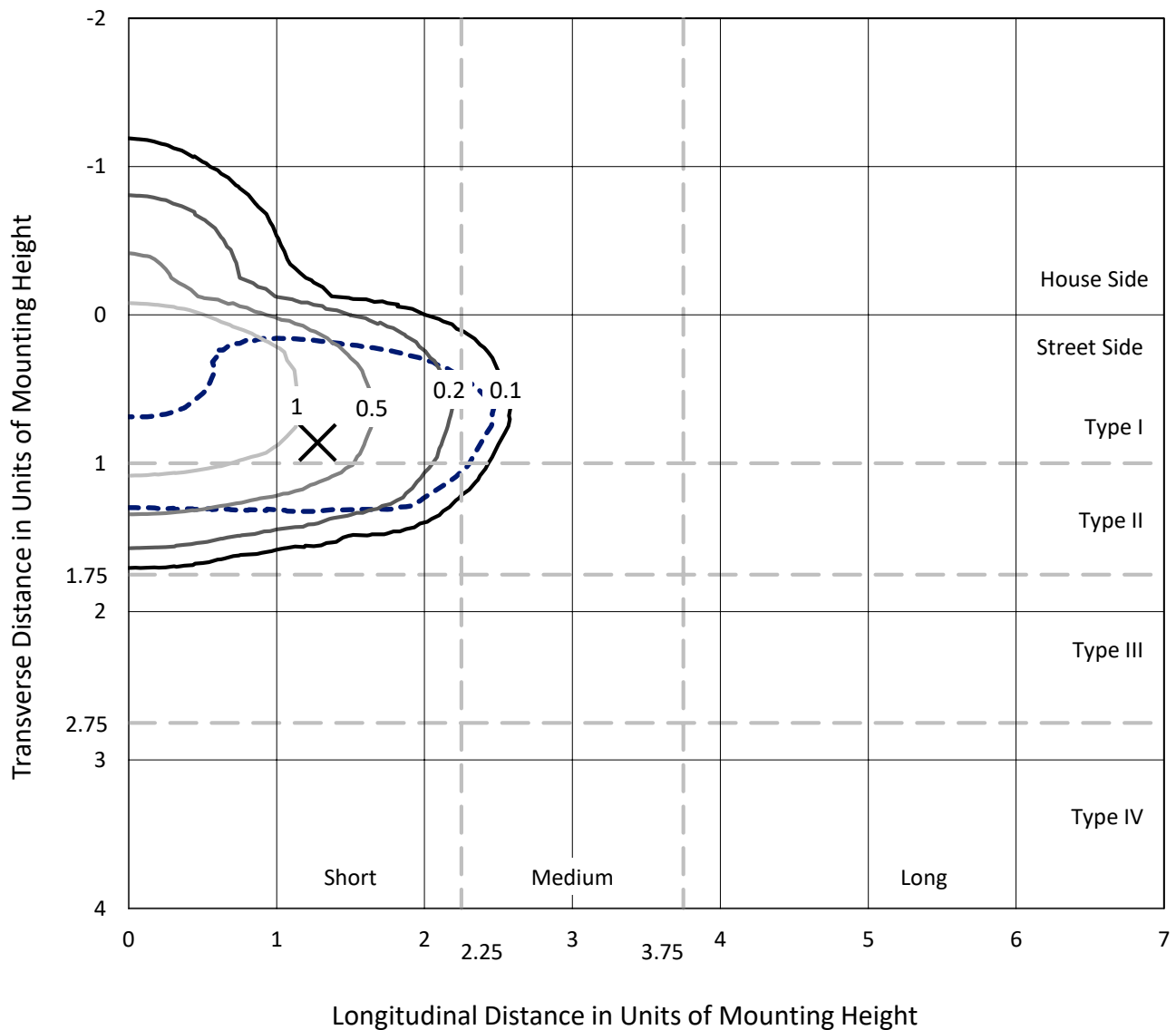
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

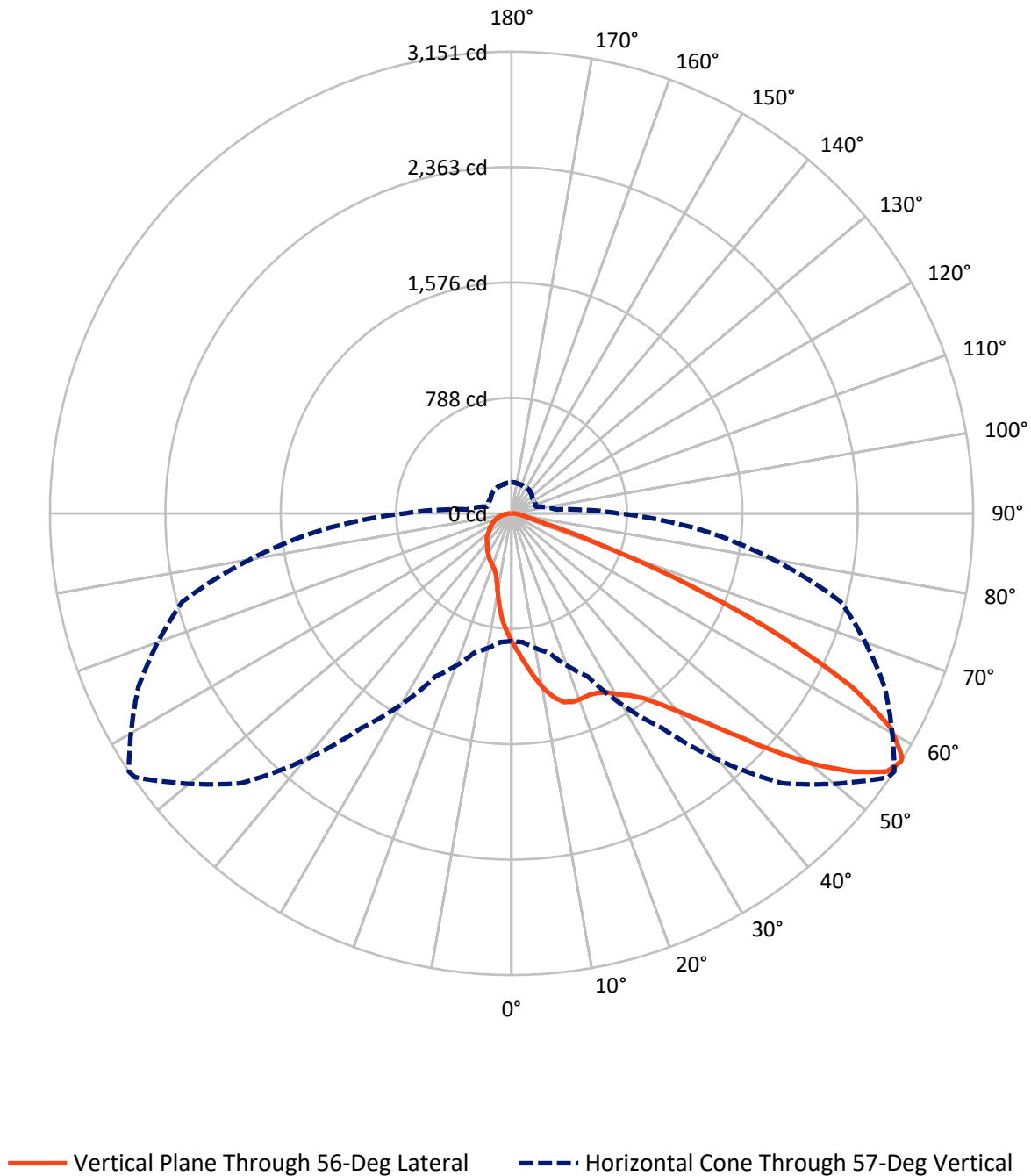
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 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	685.9	0.0	685.9
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	3293.1	0.0	3293.1
	% Fixture	82.8	0.0	82.8
Total	Lumens	3979.0	0.0	3979.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.3	2.1
10°-20°	238.4	6.0
20°-30°	388.2	9.8
30°-40°	580.4	14.6
40°-50°	880.3	22.1
50°-60°	986.6	24.8
60°-70°	582.7	14.6
70°-80°	190.9	4.8
80°-90°	47.2	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°	3979.0	100.0
0°-180°	3979.0	100.0

Coefficient of Utilization



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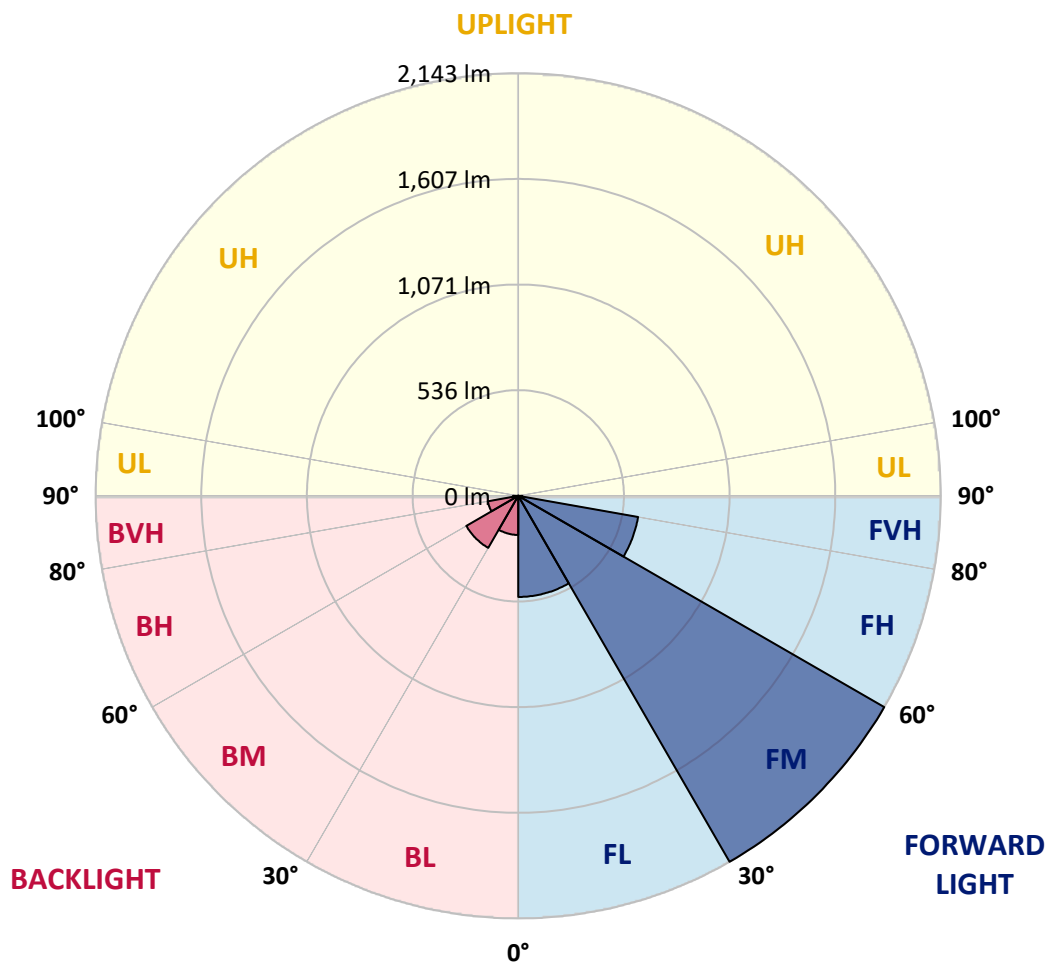
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	512.6	12.9			
FM	(30°-60°)	2142.8	53.9			
FH	(60°-80°)	617.0	15.5			G0/660
FVH	(80°-90°)	20.8	0.5			G1/100
BL	(0°-30°)	198.3	5.0	B1/500		
BM	(30°-60°)	304.4	7.7	B1/1000		
BH	(60°-80°)	156.7	3.9	B1/500		G1/500
BVH	(80°-90°)	26.4	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°	882.5	882.5	882.5	882.5	882.5	882.5	882.5	882.5	882.5	882.5	882.5
2.5°	1013.4	1022.7	1018.6	1004.4	993.4	978.0	960.8	955.6	937.4	917.0	892.5
5°	1173.8	1169.2	1162.5	1140.3	1116.9	1089.7	1046.5	1039.7	999.2	953.1	904.4
7.5°	1265.2	1264.7	1260.8	1247.8	1226.5	1190.9	1138.8	1130.7	1069.6	995.5	920.0
10°	1251.9	1250.9	1257.5	1271.0	1277.5	1270.1	1226.2	1218.1	1143.0	1042.4	938.1
12.5°	1176.5	1177.1	1187.6	1216.1	1254.8	1301.3	1294.1	1290.2	1219.2	1095.5	959.9
15°	1117.9	1119.1	1127.5	1152.2	1197.9	1282.2	1335.4	1336.8	1292.9	1154.0	985.5
17.5°	1092.2	1094.8	1098.6	1116.0	1157.8	1244.4	1345.3	1352.7	1357.5	1214.7	1010.1
20°	1100.4	1102.8	1103.9	1115.0	1149.3	1221.4	1338.5	1351.7	1407.0	1271.9	1034.7
22.5°	1137.2	1138.7	1139.4	1142.2	1168.9	1228.0	1333.9	1347.9	1442.8	1323.1	1053.3
25°	1198.2	1197.1	1192.7	1189.0	1206.9	1253.9	1344.3	1357.6	1471.9	1369.6	1065.5
27.5°	1271.2	1269.8	1261.3	1251.2	1261.5	1294.4	1374.3	1384.8	1498.0	1413.1	1071.7
30°	1358.8	1355.3	1339.3	1327.2	1331.2	1355.1	1423.6	1433.2	1538.4	1462.5	1077.7
32.5°	1460.2	1456.3	1433.2	1413.2	1413.2	1433.2	1474.5	1482.4	1572.6	1518.3	1087.4
35°	1587.1	1582.3	1552.2	1518.7	1509.2	1519.4	1543.8	1549.4	1634.1	1588.6	1105.0
37.5°	1736.6	1730.2	1691.2	1646.4	1625.7	1625.2	1642.8	1654.3	1732.4	1680.9	1135.0
40°	1886.7	1882.1	1848.1	1812.8	1772.3	1759.3	1786.6	1790.1	1860.9	1795.4	1173.3
42.5°	2002.6	2001.8	1995.5	2000.2	1958.7	1932.5	1953.8	1956.7	2017.9	1919.5	1214.0
45°	2063.9	2065.2	2095.7	2163.3	2178.6	2159.5	2170.0	2170.8	2197.3	2044.6	1251.3
47.5°	2014.8	2021.9	2099.0	2250.1	2375.5	2439.1	2421.6	2431.7	2371.3	2152.1	1280.6
50°	1823.5	1832.2	1963.5	2211.4	2467.4	2709.7	2700.6	2698.2	2511.6	2230.8	1296.5
52.5°	1586.5	1593.3	1701.6	2010.3	2400.0	2859.3	2943.4	2931.4	2636.3	2289.8	1299.5
55°	1225.6	1236.3	1340.1	1608.8	2127.3	2802.2	3122.0	3111.2	2749.9	2320.7	1295.9
57°	871.3	882.5	985.7	1227.8	1789.6	2604.3	3139.8	3151.3	2811.3	2325.9	1299.9
57.5°	777.5	789.0	891.2	1126.4	1684.3	2532.8	3124.5	3143.6	2822.4	2325.1	1302.1
60°	391.5	395.9	461.0	628.7	1064.7	2047.6	2924.7	2974.0	2832.4	2284.9	1311.5
62.5°	243.4	240.3	238.2	289.6	518.0	1357.9	2512.4	2607.4	2641.3	2187.5	1288.7
65°	214.0	208.1	185.6	181.5	228.8	659.5	1892.0	2010.3	2233.2	2034.1	1234.3
67.5°	201.0	195.3	169.8	154.5	154.7	261.5	1174.6	1307.8	1739.7	1774.7	1105.8
70°	187.6	182.4	158.6	140.6	131.7	144.8	540.4	641.5	1134.0	1394.9	924.3
72.5°	170.4	166.8	144.3	125.7	116.2	108.4	206.9	244.4	656.5	936.8	641.9
75°	152.3	149.1	129.8	112.0	100.5	85.3	116.5	125.5	333.5	479.3	316.0
77.5°	132.5	130.6	115.4	99.0	89.8	70.7	82.5	86.8	143.0	205.5	158.5
80°	105.4	109.1	100.9	88.2	79.7	56.6	58.4	61.3	83.3	100.4	90.0
82.5°	68.6	75.1	79.0	71.7	65.6	44.6	42.0	43.2	54.3	61.3	39.1
85°	28.6	32.1	52.0	46.9	43.6	32.5	28.2	28.7	33.6	34.9	16.0
87.5°	12.7	13.5	22.8	21.5	18.5	11.2	12.0	13.1	17.9	17.0	6.2
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°	882.5	882.5	882.5	882.5	882.5	882.5	882.5	882.5	882.5	882.5	882.5
2.5°	883.4	871.9	852.2	830.4	812.7	798.4	784.1	774.2	762.8	756.6	753.5
5°	884.1	861.5	820.1	777.5	739.5	704.8	671.7	646.3	622.5	609.6	606.0
7.5°	886.9	853.0	786.0	716.0	648.4	586.8	539.2	509.4	487.9	478.3	475.6
10°	889.2	843.0	743.9	640.2	548.3	485.9	448.9	432.2	424.9	423.6	422.4
12.5°	894.7	832.8	699.6	561.2	470.5	427.3	414.5	413.4	415.4	418.4	418.4
15°	903.3	822.7	649.0	493.4	421.0	405.9	408.5	414.5	420.1	424.7	425.4
17.5°	909.6	810.2	594.6	439.1	394.6	398.7	408.0	416.5	422.3	426.8	427.2
20°	914.1	790.9	536.4	397.7	379.5	392.2	403.8	411.3	415.3	419.8	420.5
22.5°	911.8	765.1	484.9	368.0	367.2	382.6	393.7	402.7	399.7	395.3	398.2
25°	900.6	729.5	431.8	345.8	354.2	369.8	383.4	377.4	367.3	365.4	366.5
27.5°	880.6	684.1	382.7	325.3	339.1	357.9	357.0	351.0	347.5	345.0	346.5
30°	859.2	634.9	339.8	307.4	322.4	337.9	334.7	334.6	331.1	327.1	329.0
32.5°	838.0	585.4	305.8	292.6	309.9	311.9	318.8	320.8	313.8	305.5	304.9
35°	819.5	538.6	279.9	279.2	294.7	295.0	304.9	302.1	284.7	276.1	276.1
37.5°	805.7	492.0	260.2	267.2	274.7	281.8	286.9	275.0	272.1	267.3	267.2
40°	799.7	451.0	247.9	258.0	260.6	269.7	256.7	261.3	262.7	260.2	260.2
42.5°	793.4	415.3	237.3	251.1	250.7	249.4	242.9	248.9	254.3	254.5	254.1
45°	787.1	384.5	227.8	236.2	241.9	228.6	229.9	236.3	244.0	246.7	246.7
47.5°	780.1	360.2	219.2	220.4	229.3	220.4	219.5	224.4	233.4	237.8	238.8
50°	764.8	338.3	209.4	206.6	209.1	212.1	212.9	215.2	225.2	232.2	233.8
52.5°	743.6	318.8	196.8	193.9	193.9	205.3	209.1	209.8	218.2	226.6	228.2
55°	726.0	306.3	183.8	183.2	182.7	198.0	204.6	205.7	211.5	218.1	218.9
57°	727.2	305.3	173.8	174.3	174.2	190.6	200.3	202.7	205.7	211.3	212.2
57.5°	727.9	306.0	171.6	171.9	171.8	188.6	199.1	201.7	204.0	209.9	210.9
60°	738.1	307.8	162.7	159.7	160.4	177.6	192.1	195.4	196.9	204.7	205.9
62.5°	723.0	299.9	155.6	148.4	148.4	166.1	182.4	187.6	189.9	200.5	202.5
65°	678.9	277.6	147.3	135.5	136.9	154.7	170.8	179.3	182.8	196.0	198.1
67.5°	611.0	251.7	138.4	124.0	125.4	142.6	158.8	167.9	173.5	191.0	192.8
70°	522.5	220.2	126.4	111.9	113.5	129.5	144.5	154.9	163.3	186.4	186.9
72.5°	385.2	180.5	109.5	98.5	100.2	114.2	130.2	142.2	153.4	174.8	174.5
75°	229.0	141.1	90.9	84.9	86.1	99.1	117.2	131.8	148.6	170.2	172.8
77.5°	138.9	106.3	74.1	71.1	72.6	85.9	107.9	123.5	146.6	160.5	159.7
80°	84.0	75.9	59.2	57.3	58.8	73.4	99.8	117.2	128.1	137.2	137.2
82.5°	43.9	46.4	43.5	42.0	44.0	59.6	90.8	102.3	113.2	97.2	90.8
85°	17.9	24.2	26.4	26.3	27.5	41.3	78.4	87.5	73.0	69.3	71.0
87.5°	6.0	10.3	12.9	11.1	11.6	26.0	54.3	42.3	50.2	35.0	33.2
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)