

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: P320865

Luminaire Tested: **GAN-SA1A-727-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320865
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-727-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4186 lumens
Efficiency: N/A
Efficacy: 123.1 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

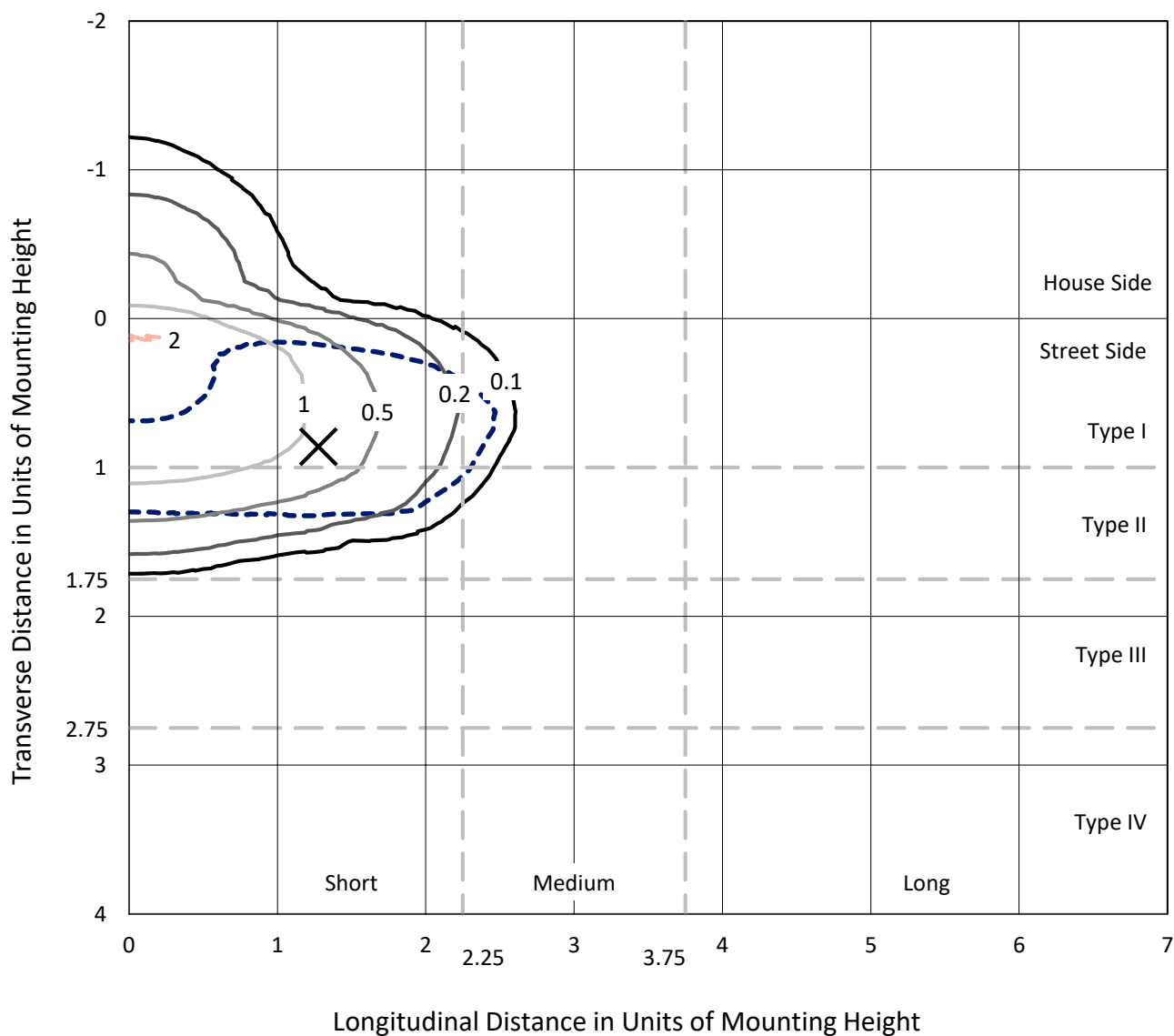
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

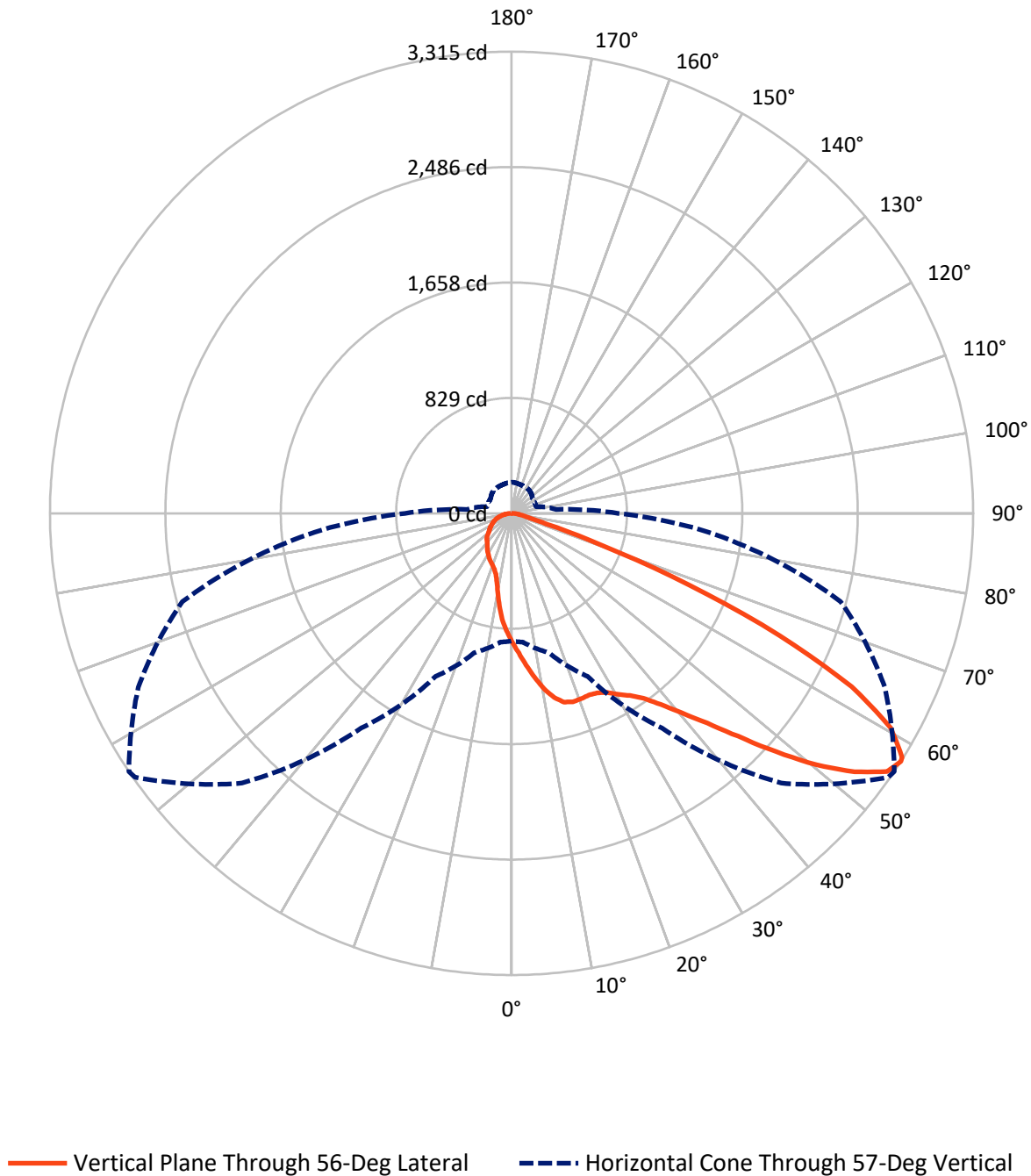
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 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	721.6	0.0	721.6
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	3464.4	0.0	3464.4
	% Fixture	82.8	0.0	82.8
Total	Lumens	4186.0	0.0	4186.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.7	2.1
10°-20°	250.7	6.0
20°-30°	408.4	9.8
30°-40°	610.6	14.6
40°-50°	926.1	22.1
50°-60°	1038.0	24.8
60°-70°	613.1	14.6
70°-80°	200.9	4.8
80°-90°	49.6	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°	4186.0	100.0
0°-180°	4186.0	100.0

Coefficient of Utilization



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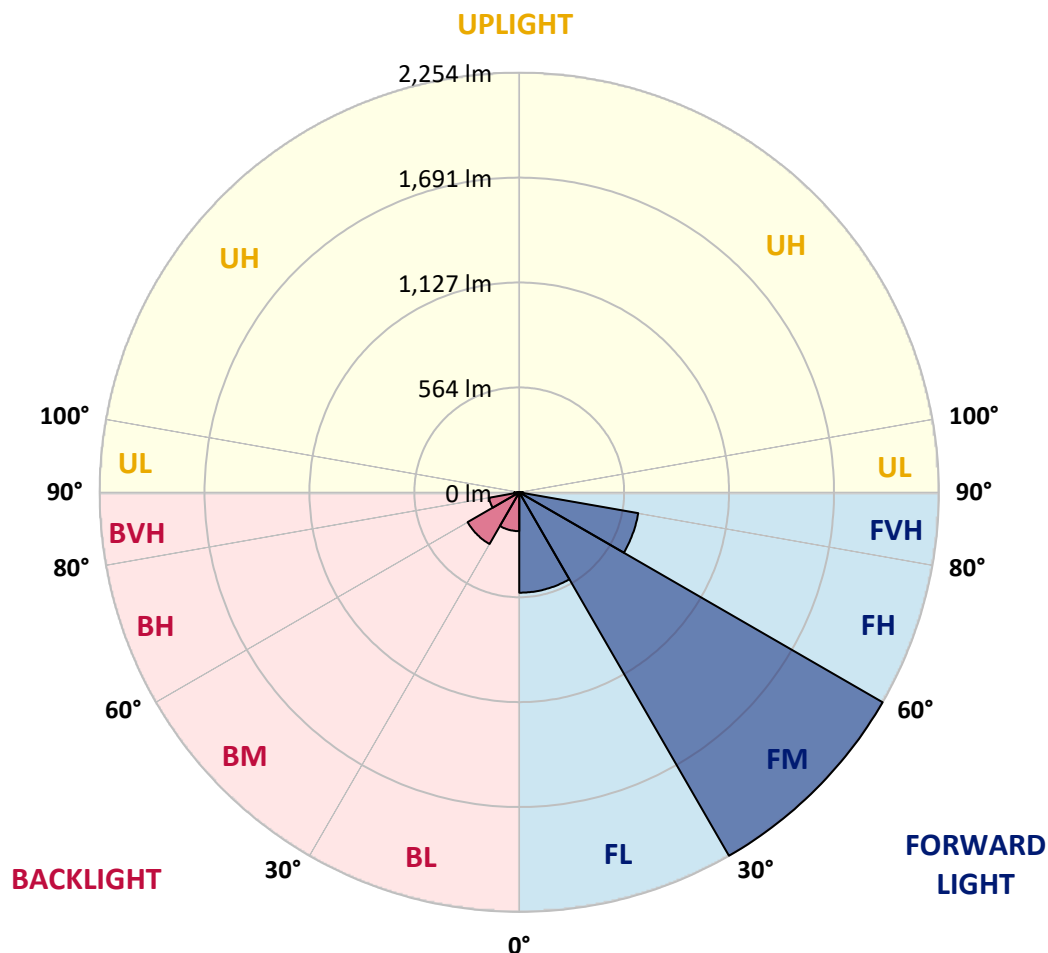
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	539.2	12.9			
FM	(30°-60°)	2254.3	53.9			
FH	(60°-80°)	649.1	15.5			G0/660
FVH	(80°-90°)	21.8	0.5			G1/100
BL	(0°-30°)	208.6	5.0	B1/500		
BM	(30°-60°)	320.3	7.7	B1/1000		
BH	(60°-80°)	164.9	3.9	B1/500		G1/500
BVH	(80°-90°)	27.8	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°	928.5	928.5	928.5	928.5	928.5	928.5	928.5	928.5	928.5	928.5	928.5
2.5°	1066.1	1075.9	1071.6	1056.6	1045.1	1028.9	1010.7	1005.3	986.1	964.7	939.0
5°	1234.9	1230.0	1222.9	1199.6	1175.0	1146.4	1100.9	1093.8	1051.2	1002.7	951.5
7.5°	1331.0	1330.5	1326.4	1312.7	1290.3	1252.9	1198.0	1189.6	1125.3	1047.3	967.9
10°	1317.0	1316.0	1322.9	1337.2	1343.9	1336.2	1290.0	1281.5	1202.5	1096.6	986.9
12.5°	1237.8	1238.3	1249.4	1279.3	1320.0	1369.0	1361.5	1357.3	1282.6	1152.4	1009.9
15°	1176.0	1177.3	1186.1	1212.1	1260.2	1349.0	1404.9	1406.4	1360.2	1214.0	1036.8
17.5°	1149.0	1151.7	1155.8	1174.0	1218.0	1309.1	1415.3	1423.0	1428.1	1277.9	1062.7
20°	1157.6	1160.2	1161.4	1173.0	1209.1	1284.9	1408.1	1422.0	1480.2	1338.0	1088.6
22.5°	1196.3	1197.9	1198.6	1201.6	1229.7	1291.8	1403.3	1418.0	1517.8	1392.0	1108.1
25°	1260.5	1259.3	1254.7	1250.8	1269.7	1319.2	1414.3	1428.2	1548.5	1440.9	1120.9
27.5°	1337.3	1335.9	1326.9	1316.3	1327.1	1361.8	1445.8	1456.8	1576.0	1486.6	1127.4
30°	1429.5	1425.8	1408.9	1396.3	1400.5	1425.6	1497.7	1507.8	1618.4	1538.6	1133.7
32.5°	1536.1	1532.1	1507.8	1486.8	1486.8	1507.8	1551.2	1559.6	1654.4	1597.3	1144.0
35°	1669.6	1664.6	1632.9	1597.7	1587.8	1598.4	1624.2	1630.1	1719.1	1671.2	1162.5
37.5°	1827.0	1820.2	1779.2	1732.0	1710.3	1709.8	1728.3	1740.4	1822.5	1768.3	1194.0
40°	1984.8	1980.1	1944.2	1907.1	1864.5	1850.9	1879.5	1883.2	1957.8	1888.9	1234.3
42.5°	2106.8	2105.9	2099.3	2104.2	2060.6	2033.0	2055.4	2058.5	2122.9	2019.3	1277.2
45°	2171.2	2172.7	2204.8	2275.8	2291.9	2271.8	2282.9	2283.7	2311.7	2151.0	1316.4
47.5°	2119.6	2127.1	2208.2	2367.2	2499.1	2566.0	2547.6	2558.2	2494.6	2264.0	1347.2
50°	1918.3	1927.6	2065.7	2326.5	2595.8	2850.7	2841.0	2838.6	2642.2	2346.9	1363.9
52.5°	1669.0	1676.2	1790.2	2114.9	2524.8	3008.1	3096.5	3083.9	2773.4	2408.9	1367.1
55°	1289.4	1300.6	1409.8	1692.5	2238.0	2947.9	3284.4	3273.1	2893.0	2441.4	1363.3
57°	916.7	928.5	1036.9	1291.7	1882.7	2739.8	3303.1	3315.2	2957.6	2446.9	1367.5
57.5°	818.0	830.1	937.5	1185.0	1771.9	2664.5	3287.0	3307.1	2969.2	2446.0	1369.8
60°	411.9	416.5	484.9	661.5	1120.1	2154.1	3076.8	3128.8	2979.7	2403.7	1379.7
62.5°	256.1	252.8	250.6	304.7	544.9	1428.5	2643.1	2743.1	2778.8	2301.3	1355.7
65°	225.1	219.0	195.2	190.9	240.7	693.8	1990.4	2114.9	2349.3	2139.9	1298.5
67.5°	211.5	205.4	178.7	162.6	162.7	275.1	1235.7	1375.9	1830.2	1867.0	1163.4
70°	197.4	191.9	166.9	147.9	138.5	152.3	568.5	674.8	1193.0	1467.5	972.3
72.5°	179.2	175.5	151.8	132.2	122.3	114.1	217.7	257.1	690.7	985.6	675.3
75°	160.3	156.8	136.5	117.8	105.7	89.8	122.6	132.1	350.9	504.2	332.5
77.5°	139.4	137.4	121.4	104.2	94.5	74.4	86.7	91.3	150.5	216.2	166.7
80°	110.9	114.8	106.2	92.8	83.9	59.6	61.4	64.4	87.6	105.6	94.7
82.5°	72.2	79.0	83.1	75.4	69.1	46.9	44.2	45.5	57.1	64.4	41.1
85°	30.1	33.8	54.7	49.3	45.9	34.2	29.6	30.2	35.4	36.7	16.8
87.5°	13.4	14.2	24.0	22.6	19.4	11.8	12.7	13.8	18.8	17.8	6.5
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°	928.5	928.5	928.5	928.5	928.5	928.5	928.5	928.5	928.5	928.5	928.5
2.5°	929.3	917.2	896.5	873.6	854.9	840.0	824.9	814.5	802.4	796.0	792.7
5°	930.0	906.3	862.7	818.0	778.0	741.4	706.6	679.9	654.8	641.3	637.6
7.5°	933.1	897.4	826.9	753.2	682.2	617.3	567.2	535.9	513.3	503.2	500.3
10°	935.5	886.9	782.6	673.5	576.9	511.1	472.3	454.7	447.0	445.7	444.4
12.5°	941.3	876.1	736.0	590.4	495.0	449.6	436.0	434.9	437.0	440.2	440.2
15°	950.3	865.4	682.7	519.0	442.9	427.0	429.7	436.0	441.9	446.8	447.5
17.5°	956.9	852.4	625.5	461.9	415.2	419.5	429.3	438.2	444.2	449.0	449.4
20°	961.7	832.1	564.4	418.3	399.2	412.6	424.8	432.7	436.9	441.6	442.4
22.5°	959.2	804.9	510.1	387.1	386.3	402.5	414.2	423.7	420.5	415.9	418.9
25°	947.4	767.5	454.3	363.8	372.6	389.0	403.4	397.0	386.4	384.4	385.5
27.5°	926.4	719.7	402.7	342.2	356.8	376.5	375.6	369.3	365.5	363.0	364.5
30°	903.9	667.9	357.5	323.4	339.2	355.5	352.2	352.0	348.3	344.1	346.1
32.5°	881.6	615.9	321.7	307.9	326.0	328.1	335.3	337.5	330.2	321.4	320.8
35°	862.1	566.7	294.5	293.8	310.0	310.3	320.8	317.8	299.5	290.4	290.4
37.5°	847.6	517.6	273.8	281.1	289.0	296.5	301.8	289.3	286.3	281.2	281.1
40°	841.3	474.4	260.8	271.5	274.2	283.7	270.0	274.9	276.4	273.8	273.8
42.5°	834.7	436.9	249.6	264.1	263.7	262.4	255.5	261.8	267.6	267.7	267.3
45°	828.0	404.5	239.7	248.4	254.5	240.5	241.8	248.6	256.6	259.5	259.5
47.5°	820.7	378.9	230.6	231.9	241.2	231.9	230.9	236.1	245.6	250.2	251.2
50°	804.6	355.9	220.2	217.4	220.0	223.1	224.0	226.4	236.9	244.3	246.0
52.5°	782.3	335.3	207.0	204.0	204.0	215.9	220.0	220.7	229.6	238.4	240.1
55°	763.7	322.2	193.3	192.8	192.2	208.3	215.2	216.4	222.5	229.5	230.3
57°	765.0	321.2	182.8	183.4	183.3	200.5	210.8	213.2	216.4	222.3	223.3
57.5°	765.8	322.0	180.5	180.8	180.7	198.4	209.5	212.2	214.6	220.8	221.8
60°	776.5	323.8	171.2	168.0	168.7	186.9	202.1	205.6	207.2	215.4	216.6
62.5°	760.6	315.5	163.7	156.1	156.1	174.8	191.9	197.4	199.8	210.9	213.1
65°	714.3	292.0	154.9	142.6	144.0	162.7	179.7	188.6	192.3	206.1	208.5
67.5°	642.8	264.8	145.6	130.5	131.9	150.0	167.0	176.7	182.6	201.0	202.8
70°	549.7	231.6	132.9	117.7	119.4	136.2	152.1	163.0	171.8	196.1	196.7
72.5°	405.2	189.9	115.2	103.6	105.4	120.1	137.0	149.6	161.4	183.9	183.6
75°	241.0	148.5	95.7	89.3	90.6	104.3	123.3	138.7	156.4	179.1	181.8
77.5°	146.2	111.8	78.0	74.8	76.4	90.3	113.5	129.9	154.2	168.9	168.0
80°	88.3	79.8	62.3	60.3	61.9	77.3	105.0	123.3	134.8	144.3	144.3
82.5°	46.2	48.8	45.7	44.2	46.3	62.7	95.5	107.6	119.1	102.3	95.5
85°	18.8	25.5	27.8	27.6	28.9	43.4	82.4	92.1	76.8	72.9	74.7
87.5°	6.3	10.8	13.5	11.7	12.2	27.3	57.1	44.5	52.8	36.8	35.0
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)