

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: P268176

Luminaire Tested: **GAN-AF-01-LED-U-AFL-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268176
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24165)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-01-LED-U-AFL-7027-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4488.3 lumens
Efficiency: N/A
Efficacy: 102.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - U0 - G1

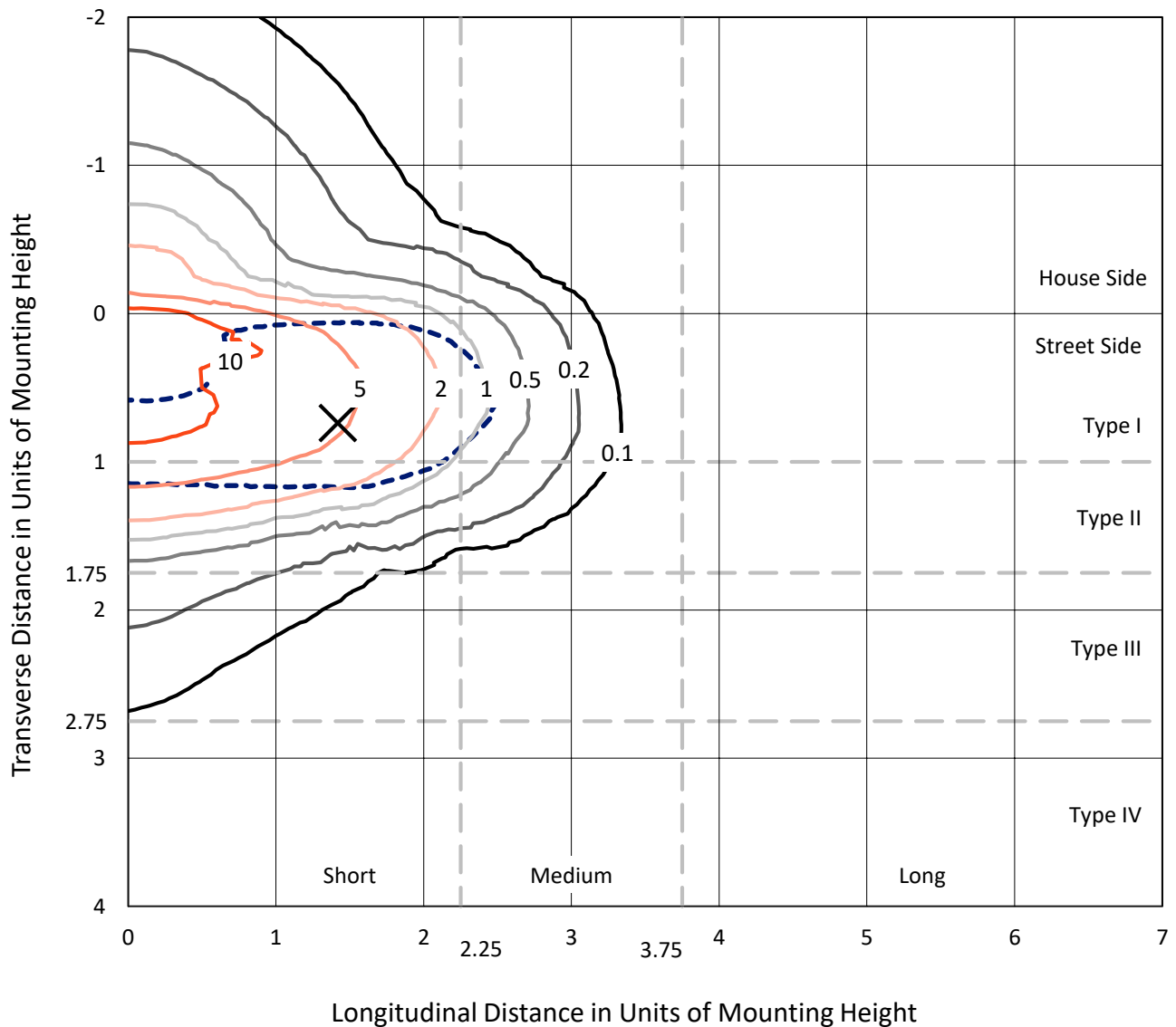
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

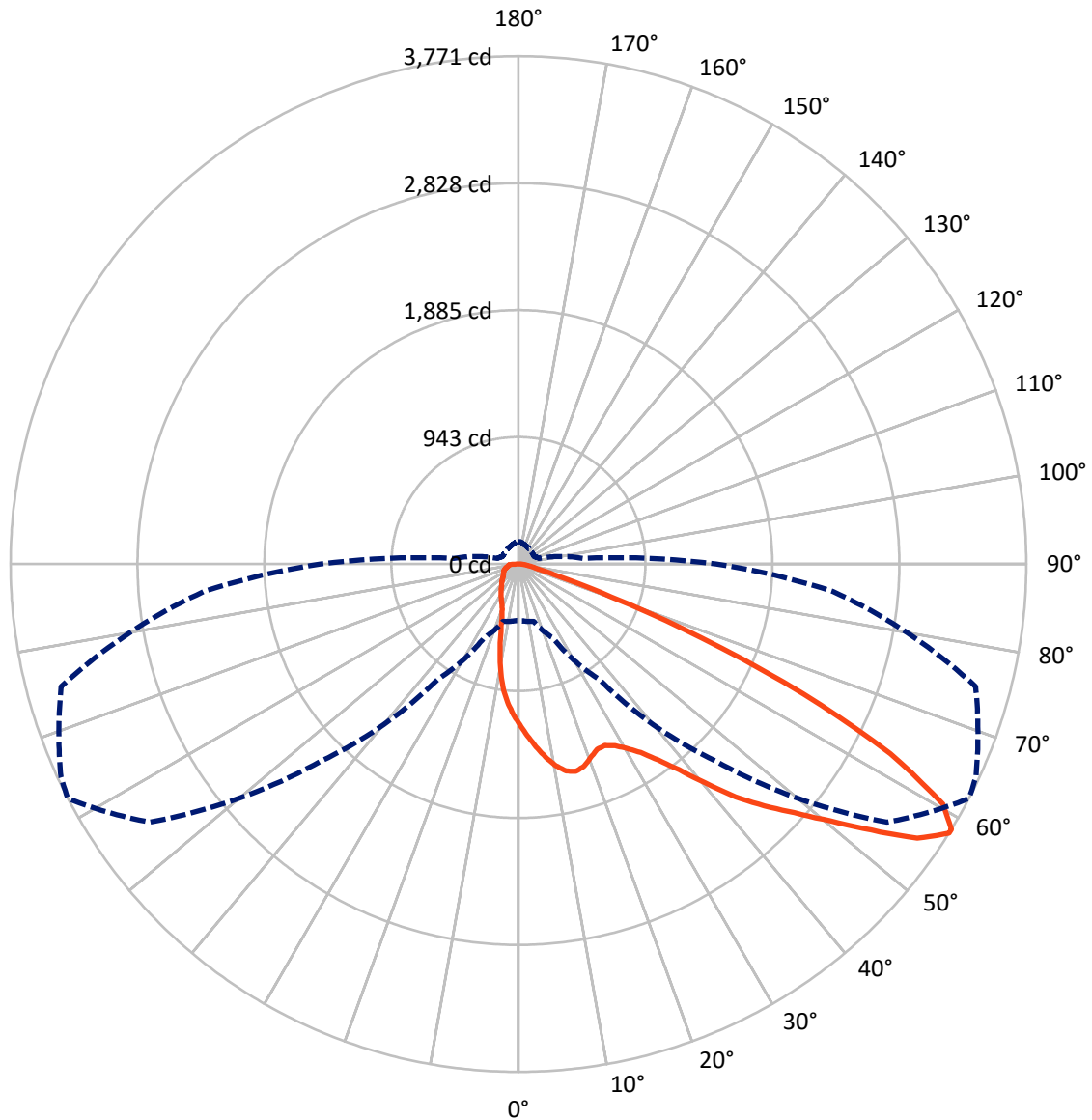
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.5 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 62.5-Deg Lateral - - - Horizontal Cone Through 58-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	684.5	0.0	684.5
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	3803.8	0.0	3803.8
	% Fixture	84.7	0.0	84.7
Total	Lumens	4488.3	0.0	4488.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.6	2.4
10°-20°	272.6	6.1
20°-30°	440.6	9.8
30°-40°	699.4	15.6
40°-50°	1023.4	22.8
50°-60°	1070.4	23.8
60°-70°	632.4	14.1
70°-80°	178.1	4.0
80°-90°	64.7	1.4
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°	4488.3	100.0
0°-180°	4488.3	100.0



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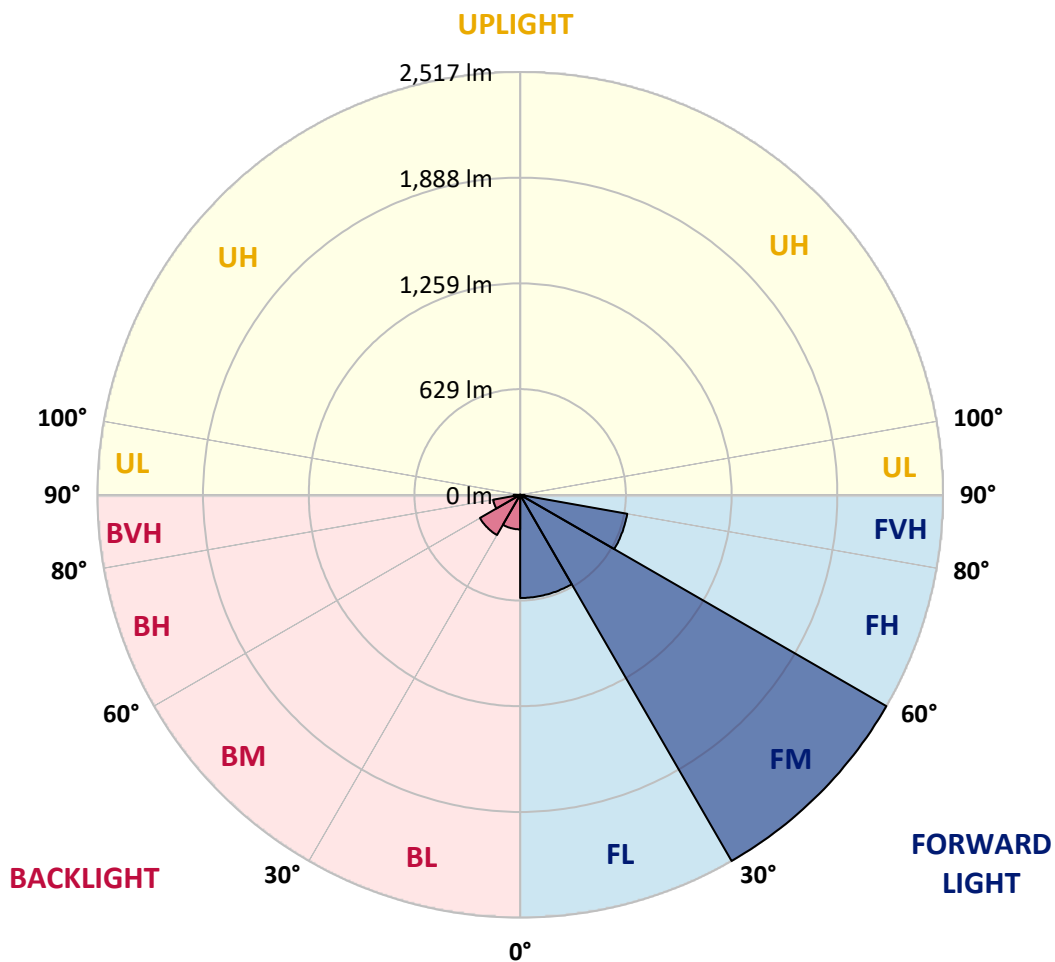
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	614.1	13.7			
FM	(30°-60°)	2517.0	56.1			
FH	(60°-80°)	647.2	14.4			G0/660
FVH	(80°-90°)	25.5	0.6			G1/100
BL	(0°-30°)	205.7	4.6	B1/500		
BM	(30°-60°)	276.3	6.2	B1/1000		
BH	(60°-80°)	163.3	3.6	B1/500		G1/500
BVH	(80°-90°)	39.2	0.9			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°	62.5°	65°	75°	85°
0°	1192.2	1192.2	1192.2	1192.2	1192.2	1192.2	1192.2	1192.2	1192.2	1192.2	1192.2
2.5°	1362.4	1351.4	1344.5	1338.3	1330.2	1313.1	1290.1	1275.6	1268.0	1243.0	1213.2
5°	1495.9	1486.2	1479.0	1470.7	1456.4	1429.6	1392.4	1362.8	1348.1	1298.0	1238.4
7.5°	1464.6	1468.6	1481.1	1503.0	1521.5	1518.0	1484.8	1447.1	1427.9	1357.9	1267.5
10°	1276.1	1283.0	1304.7	1355.6	1438.0	1522.5	1548.4	1522.4	1503.0	1417.3	1297.5
12.5°	1238.4	1238.1	1239.8	1253.3	1302.4	1421.4	1550.5	1576.6	1565.0	1473.9	1328.1
15°	1253.8	1254.2	1252.9	1258.5	1273.7	1321.0	1485.7	1597.5	1605.8	1531.0	1359.9
17.5°	1294.3	1293.3	1288.3	1288.3	1293.9	1312.2	1409.7	1578.1	1616.2	1581.6	1387.7
20°	1362.4	1357.5	1344.7	1332.7	1326.8	1336.8	1378.4	1533.3	1598.3	1625.8	1410.8
22.5°	1444.8	1441.1	1420.1	1394.7	1374.1	1374.0	1394.4	1494.2	1567.2	1667.3	1430.2
25°	1551.4	1545.2	1514.2	1473.5	1437.6	1423.9	1429.6	1492.4	1550.2	1712.6	1447.6
27.5°	1676.4	1665.3	1628.4	1569.9	1517.1	1489.4	1481.1	1526.8	1565.7	1768.7	1471.7
30°	1828.2	1815.2	1768.1	1691.9	1617.3	1571.9	1554.2	1587.8	1616.8	1836.9	1510.3
32.5°	2000.9	1982.3	1927.8	1843.6	1745.5	1676.1	1647.8	1668.6	1691.7	1919.0	1558.6
35°	2239.5	2217.2	2138.4	2022.4	1911.7	1816.4	1770.6	1785.9	1808.3	2041.7	1628.6
37.5°	2402.2	2392.2	2339.8	2230.9	2110.4	2000.6	1930.1	1938.9	1951.6	2194.9	1718.3
40°	2400.7	2404.8	2405.8	2406.9	2324.9	2219.8	2144.0	2134.6	2132.0	2363.1	1820.1
42.5°	2280.4	2297.0	2350.2	2458.2	2508.1	2459.9	2390.4	2363.5	2350.2	2561.3	1928.1
45°	2096.4	2105.3	2205.0	2415.9	2601.9	2697.7	2645.1	2560.4	2536.5	2743.6	2017.8
47.5°	2001.6	2011.2	2073.9	2304.0	2601.0	2889.8	2920.2	2759.1	2716.0	2902.1	2095.1
50°	1775.6	1795.8	1874.9	2109.1	2506.0	2978.2	3207.8	2995.8	2906.7	3056.4	2172.7
52.5°	1360.7	1392.0	1480.4	1788.6	2265.3	2934.5	3438.1	3282.9	3157.0	3216.1	2239.3
55°	858.3	881.5	955.9	1263.2	1812.2	2706.8	3525.3	3593.4	3481.4	3367.4	2297.0
57.5°	466.7	477.0	504.8	697.4	1178.7	2203.5	3398.1	3770.0	3723.6	3495.9	2340.5
58°	417.6	424.5	442.0	604.5	1045.4	2065.9	3341.7	3770.7	3747.5	3514.8	2343.9
60°	309.8	306.2	290.8	344.9	581.8	1427.2	3000.6	3619.8	3688.1	3537.9	2327.4
62.5°	272.2	263.6	232.0	228.4	283.0	657.5	2295.9	3100.7	3261.9	3406.4	2227.2
65°	255.7	246.4	205.8	192.7	204.2	278.1	1352.5	2325.5	2527.7	3007.7	1971.1
67.5°	243.5	231.5	189.2	171.1	172.0	183.9	542.0	1464.6	1692.2	2283.6	1533.1
70°	231.7	218.6	175.0	154.2	149.4	145.4	215.6	733.1	939.6	1442.5	977.4
72.5°	218.9	206.2	162.6	140.9	131.4	118.1	140.8	299.9	418.9	682.4	443.5
75°	200.6	189.0	150.0	129.1	115.6	97.8	106.3	156.7	187.8	271.7	213.6
77.5°	178.0	168.4	136.2	119.5	102.4	79.5	81.7	108.7	120.5	155.5	127.0
80°	127.9	131.2	121.1	107.3	91.3	64.5	62.8	79.3	85.6	100.0	82.6
82.5°	89.8	91.7	100.3	87.8	75.5	50.8	46.4	55.8	59.6	65.8	44.6
85°	62.0	59.7	68.7	61.1	54.5	33.9	31.7	37.8	40.2	40.9	23.0
87.5°	37.2	37.2	39.7	32.8	29.4	17.5	17.1	21.6	23.0	22.0	12.7
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°	1192.2	1192.2	1192.2	1192.2	1192.2	1192.2	1192.2	1192.2	1192.2	1192.2	1192.2
2.5°	1195.5	1180.5	1148.5	1122.9	1090.5	1056.9	1038.1	1018.0	1004.3	994.5	1010.2
5°	1204.4	1173.8	1107.9	1045.4	976.2	904.4	849.8	799.1	763.7	741.8	762.5
7.5°	1218.9	1171.7	1066.6	959.7	835.7	716.0	609.1	542.0	503.1	483.7	495.9
10°	1235.3	1168.3	1018.3	843.7	666.2	515.4	435.6	408.5	399.7	396.1	397.8
12.5°	1249.2	1161.1	958.9	703.4	500.3	407.0	384.0	383.3	385.4	385.7	386.4
15°	1258.9	1150.5	870.7	557.0	400.0	370.9	369.7	373.4	377.1	378.5	379.4
17.5°	1265.4	1128.8	771.3	440.4	358.5	353.4	356.4	361.2	365.0	366.1	366.9
20°	1264.8	1096.9	652.7	367.3	335.8	335.8	340.8	344.7	344.9	343.6	344.3
22.5°	1258.2	1053.2	537.6	328.4	315.8	319.3	324.4	320.9	306.1	296.4	297.0
25°	1247.1	1000.9	439.2	303.6	297.2	303.4	302.0	275.1	253.9	244.2	244.2
27.5°	1237.4	939.3	363.5	282.2	278.6	286.4	260.1	235.6	226.8	222.3	220.9
30°	1230.5	872.7	313.0	261.4	261.0	255.3	225.7	218.9	217.5	213.8	212.5
32.5°	1232.1	805.2	280.7	243.4	244.8	218.6	209.2	210.7	209.5	205.6	203.9
35°	1246.0	741.2	259.5	226.8	222.3	197.4	199.6	202.3	201.8	196.5	194.8
37.5°	1271.0	680.6	245.5	213.1	194.0	186.8	190.3	194.5	193.3	189.8	188.6
40°	1297.2	623.5	234.2	202.3	177.3	179.7	182.6	185.0	185.9	187.0	186.2
42.5°	1322.8	563.9	220.3	191.2	170.4	172.8	174.1	176.4	182.1	186.2	185.9
45°	1338.0	507.9	205.8	175.6	164.8	166.4	165.5	170.0	177.1	183.7	183.9
47.5°	1355.0	464.3	194.5	161.2	159.5	160.6	158.1	162.8	169.2	177.1	178.0
50°	1375.5	438.4	185.4	149.8	152.4	152.4	151.8	155.9	164.8	174.1	175.9
52.5°	1398.8	433.3	177.8	141.7	145.2	144.9	145.6	152.0	161.7	170.8	172.2
55°	1427.0	446.9	169.5	135.5	138.2	139.1	141.2	148.4	156.7	166.9	167.7
57.5°	1460.0	474.9	163.0	130.7	132.0	134.7	138.0	144.5	153.4	164.8	165.5
58°	1465.6	480.9	161.9	130.2	130.7	133.8	137.6	143.9	152.8	165.3	165.8
60°	1465.8	500.4	159.5	128.3	125.8	131.1	135.3	141.7	151.8	166.7	168.3
62.5°	1413.8	500.3	157.9	125.6	120.7	127.2	132.1	139.4	150.6	170.4	173.4
65°	1244.8	454.6	149.8	121.4	116.7	123.8	129.4	138.0	153.7	185.9	187.8
67.5°	973.8	372.5	134.8	115.4	111.4	120.5	127.6	137.8	156.8	189.6	190.9
70°	643.7	278.7	118.3	108.7	105.9	116.5	128.5	144.9	153.3	181.9	178.7
72.5°	334.2	195.7	105.0	100.3	99.5	112.8	140.8	144.2	149.7	171.1	166.9
75°	175.3	136.0	93.5	90.9	91.9	112.0	166.1	140.3	144.9	163.9	171.8
77.5°	107.3	109.8	83.5	82.5	84.5	109.5	165.8	135.5	138.2	150.6	159.5
80°	71.9	89.0	75.8	76.0	77.6	100.3	148.9	127.9	130.0	142.4	151.5
82.5°	45.5	52.6	68.9	72.6	70.5	82.6	126.7	116.5	119.5	163.0	172.2
85°	23.0	33.0	59.7	69.8	63.6	57.9	102.8	102.0	103.6	117.5	122.8
87.5°	10.6	18.1	46.7	60.8	48.0	36.1	74.6	75.6	81.6	83.5	83.5
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)