

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: P268174

Luminaire Tested: **GAN-AF-01-LED-U-AFL-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268174
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-7027-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3660 lumens
Efficiency: N/A
Efficacy: 107.6 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

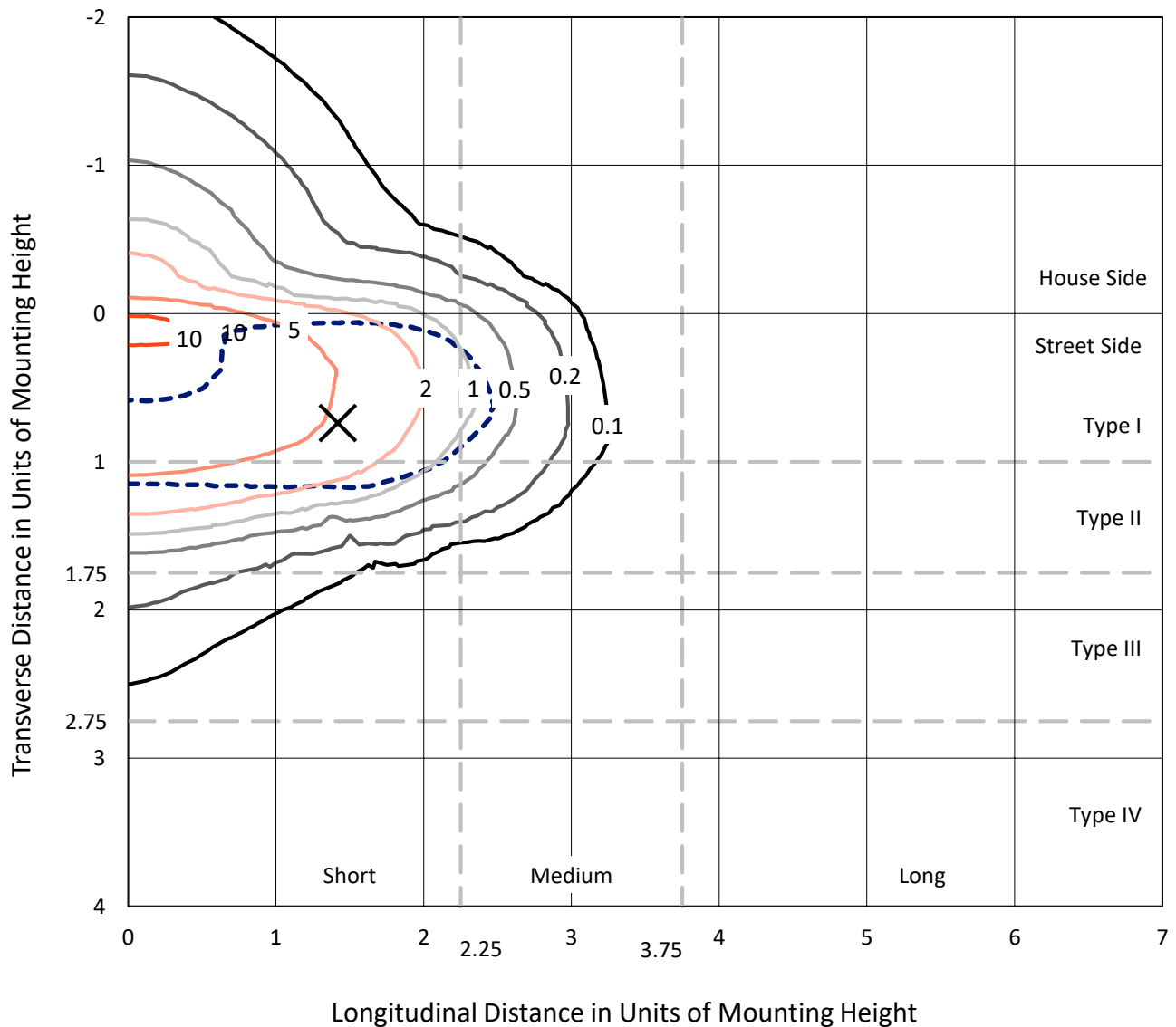
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

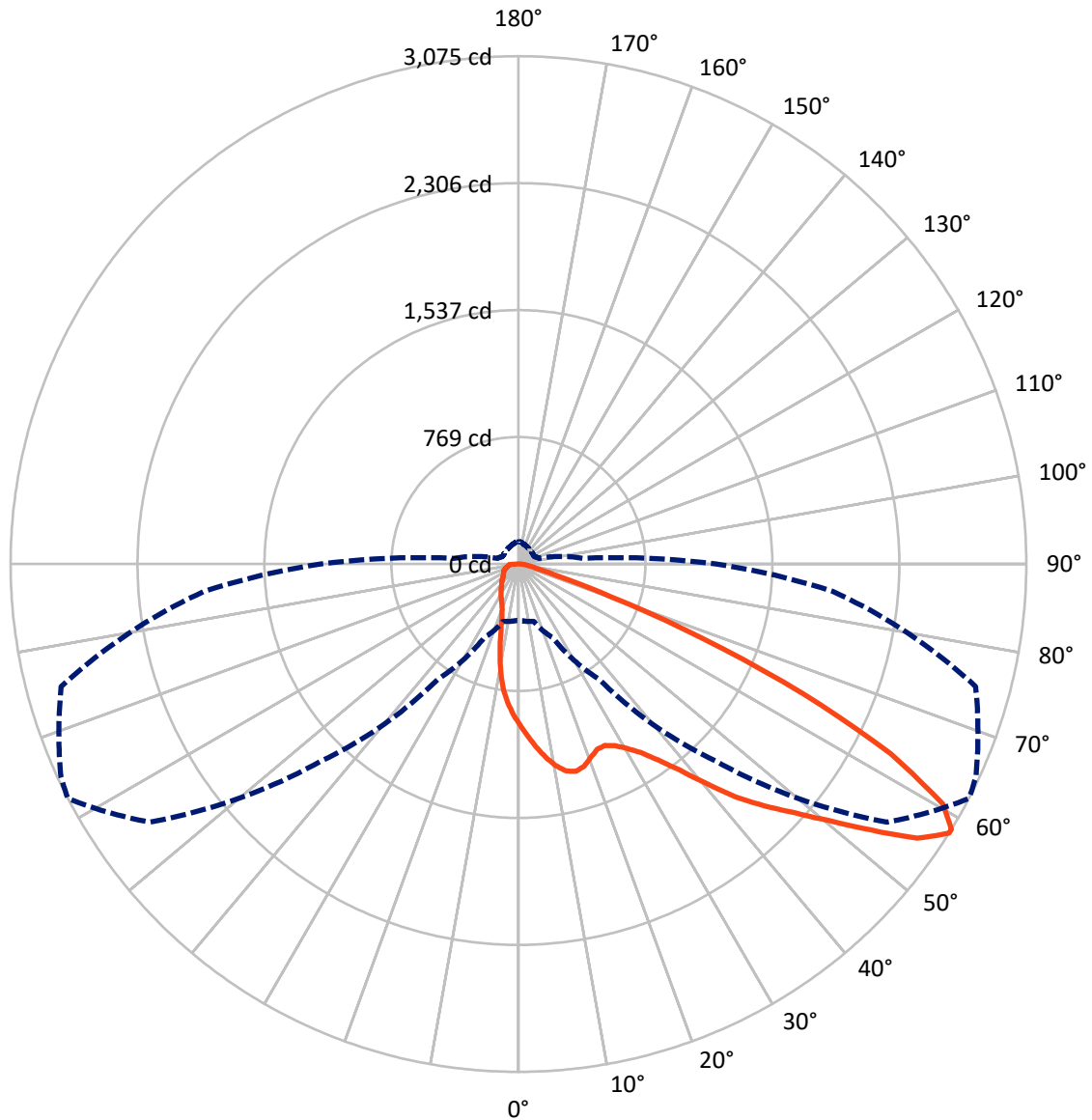
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.8 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	558.2	0.0	558.2
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	3101.8	0.0	3101.8
	% Fixture	84.7	0.0	84.7
Total	Lumens	3660.0	0.0	3660.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.9	2.4
10°-20°	222.3	6.1
20°-30°	359.3	9.8
30°-40°	570.4	15.6
40°-50°	834.5	22.8
50°-60°	872.9	23.8
60°-70°	515.7	14.1
70°-80°	145.3	4.0
80°-90°	52.7	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°	3660.0	100.0
0°-180°	3660.0	100.0



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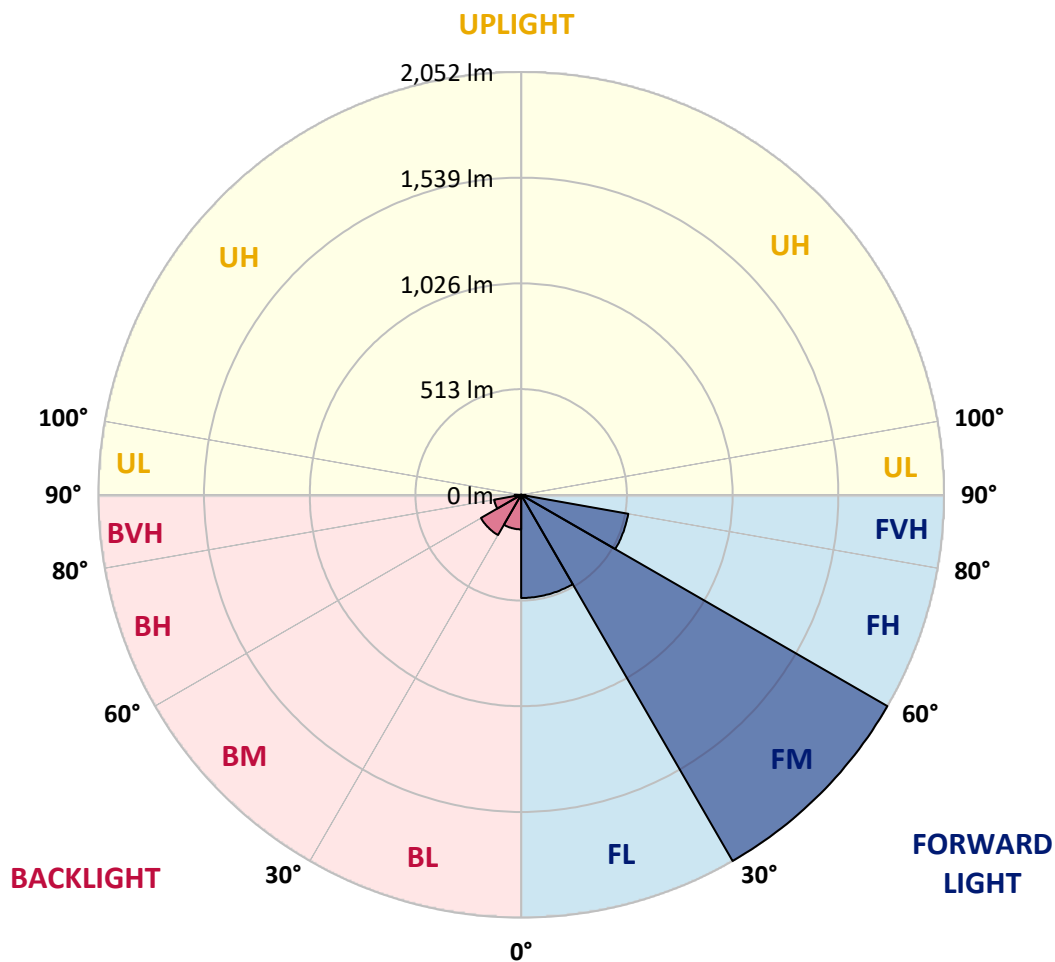
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	500.7	13.7			
FM	(30°-60°)	2052.5	56.1			
FH	(60°-80°)	527.8	14.4			G0/660
FVH	(80°-90°)	20.8	0.6			G1/100
BL	(0°-30°)	167.8	4.6	B1/500		
BM	(30°-60°)	225.3	6.2	B1/1000		
BH	(60°-80°)	133.2	3.6	B1/500		G1/500
BVH	(80°-90°)	31.9	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°	972.1	972.1	972.1	972.1	972.1	972.1	972.1	972.1	972.1	972.1	972.1
2.5°	1110.9	1102.0	1096.3	1091.4	1084.8	1070.8	1051.9	1040.1	1034.0	1013.6	989.3
5°	1219.9	1212.0	1206.1	1199.3	1187.6	1165.7	1135.4	1111.3	1099.3	1058.4	1009.8
7.5°	1194.3	1197.6	1207.9	1225.6	1240.6	1237.8	1210.7	1180.1	1164.4	1107.3	1033.5
10°	1040.5	1046.3	1063.9	1105.5	1172.6	1241.5	1262.6	1241.4	1225.6	1155.7	1058.1
12.5°	1009.8	1009.5	1011.0	1022.0	1061.9	1159.1	1264.4	1285.7	1276.2	1201.9	1082.9
15°	1022.4	1022.7	1021.6	1026.4	1038.7	1077.2	1211.5	1302.7	1309.5	1248.5	1108.9
17.5°	1055.4	1054.6	1050.6	1050.6	1055.1	1070.2	1149.6	1286.9	1318.0	1289.6	1131.7
20°	1110.9	1106.9	1096.4	1086.8	1082.0	1090.1	1124.0	1250.4	1303.4	1325.7	1150.4
22.5°	1178.1	1175.1	1157.9	1137.3	1120.5	1120.4	1137.2	1218.6	1277.8	1359.7	1166.3
25°	1265.1	1260.1	1234.7	1201.7	1172.3	1161.1	1165.7	1216.9	1264.2	1396.4	1180.5
27.5°	1367.0	1357.9	1328.0	1280.2	1237.1	1214.5	1207.9	1245.1	1276.8	1442.1	1200.0
30°	1490.7	1480.2	1441.8	1379.5	1318.8	1281.7	1267.4	1294.7	1318.4	1497.8	1231.5
32.5°	1631.6	1616.4	1571.9	1503.4	1423.4	1366.9	1343.5	1360.7	1379.4	1564.8	1271.0
35°	1826.2	1808.1	1743.8	1649.2	1558.9	1481.1	1443.8	1456.3	1474.6	1664.9	1328.1
37.5°	1958.8	1950.8	1908.0	1819.1	1720.9	1631.4	1573.8	1581.0	1591.3	1789.9	1401.1
40°	1957.6	1960.9	1961.8	1962.6	1895.8	1810.2	1748.2	1740.6	1738.6	1927.0	1484.2
42.5°	1859.6	1873.1	1916.4	2004.5	2045.3	2005.9	1949.2	1927.4	1916.4	2088.6	1572.4
45°	1709.5	1716.8	1798.0	1970.1	2121.7	2199.8	2156.9	2087.9	2068.3	2237.1	1645.3
47.5°	1632.1	1640.0	1691.1	1878.7	2120.9	2356.4	2381.2	2250.0	2214.9	2366.4	1708.4
50°	1447.9	1464.3	1528.8	1719.8	2043.5	2428.5	2615.9	2443.0	2370.3	2492.3	1771.6
52.5°	1109.5	1135.1	1207.2	1458.6	1847.2	2392.8	2803.5	2676.9	2574.4	2622.5	1826.0
55°	699.9	718.9	779.5	1030.0	1477.7	2207.1	2874.7	2930.2	2838.9	2745.9	1873.1
57.5°	380.5	389.0	411.8	568.7	961.1	1796.9	2770.9	3074.3	3036.4	2850.7	1908.4
58°	340.5	346.2	360.4	492.9	852.4	1684.6	2724.9	3074.8	3055.9	2866.0	1911.4
60°	252.7	249.6	237.2	281.3	474.5	1163.8	2446.8	2951.7	3007.3	2884.8	1897.8
62.5°	222.1	215.0	189.3	186.3	230.8	536.2	1872.2	2528.5	2659.9	2777.6	1816.2
65°	208.5	201.0	167.9	157.2	166.5	226.8	1102.8	1896.3	2061.3	2452.6	1607.2
67.5°	198.5	188.7	154.2	139.5	140.2	149.9	442.1	1194.3	1379.9	1862.1	1250.3
70°	189.0	178.3	142.7	125.9	121.8	118.5	175.8	597.8	766.3	1176.2	797.1
72.5°	178.6	168.1	132.5	115.0	107.2	96.4	114.8	244.6	341.5	556.5	361.6
75°	163.5	154.1	122.3	105.3	94.3	79.8	86.6	127.6	153.3	221.6	174.2
77.5°	145.2	137.4	111.0	97.3	83.6	64.8	66.7	88.7	98.3	126.8	103.6
80°	104.3	107.0	98.8	87.6	74.5	52.6	51.3	64.6	69.8	81.6	67.5
82.5°	73.2	74.7	81.7	71.5	61.5	41.3	37.8	45.5	48.6	53.5	36.4
85°	50.5	48.8	56.1	49.8	44.5	27.6	25.8	30.8	32.8	33.2	18.8
87.5°	30.4	30.4	32.3	26.7	24.0	14.4	14.0	17.5	18.8	18.0	10.3
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°	972.1	972.1	972.1	972.1	972.1	972.1	972.1	972.1	972.1	972.1	972.1
2.5°	974.8	962.5	936.6	915.6	889.3	862.0	846.6	830.2	819.0	810.9	823.7
5°	982.1	957.2	903.4	852.4	796.1	737.5	693.0	651.6	622.9	604.9	621.7
7.5°	994.0	955.4	869.7	782.7	681.5	583.9	496.8	442.1	410.2	394.4	404.2
10°	1007.4	952.7	830.4	688.0	543.3	420.3	355.2	333.1	325.9	323.0	324.4
12.5°	1018.6	946.9	782.0	573.6	407.9	332.0	313.1	312.6	314.1	314.5	315.0
15°	1026.5	938.2	710.1	454.4	326.3	302.5	301.4	304.5	307.5	308.7	309.3
17.5°	1031.9	920.6	628.9	359.1	292.3	288.1	290.6	294.6	297.7	298.4	299.1
20°	1031.3	894.4	532.2	299.6	273.9	273.9	277.9	281.1	281.3	280.2	280.7
22.5°	1026.0	858.8	438.5	267.9	257.5	260.4	264.6	261.6	249.5	241.6	242.2
25°	1017.1	816.2	358.2	247.7	242.4	247.6	246.2	224.1	207.0	199.2	199.2
27.5°	1009.1	765.9	296.4	230.1	227.1	233.5	212.2	192.1	185.0	181.3	180.1
30°	1003.3	711.5	255.3	213.2	212.9	208.1	184.1	178.6	177.3	174.5	173.4
32.5°	1004.8	656.7	228.9	198.3	199.6	178.3	170.6	171.8	170.8	167.8	166.2
35°	1016.2	604.4	211.6	185.0	181.3	160.9	162.8	164.8	164.6	160.3	158.9
37.5°	1036.5	555.0	200.2	173.7	158.2	152.4	155.0	158.6	157.7	154.8	153.7
40°	1057.8	508.4	191.0	164.8	144.5	146.6	148.8	150.7	151.6	152.5	151.9
42.5°	1078.8	459.8	179.7	155.9	138.9	140.9	142.0	143.9	148.6	151.9	151.6
45°	1091.1	414.2	167.9	143.2	134.4	135.6	134.9	138.8	144.4	149.7	149.9
47.5°	1104.8	378.6	158.6	131.5	130.2	131.1	128.8	132.7	137.9	144.4	145.2
50°	1121.7	357.4	151.2	122.2	124.2	124.2	123.7	127.2	134.4	142.0	143.4
52.5°	1140.6	353.4	144.9	115.4	118.3	118.2	118.8	124.0	131.8	139.2	140.4
55°	1163.7	364.5	138.2	110.5	112.6	113.4	115.2	121.0	127.6	136.2	136.6
57.5°	1190.6	387.3	132.9	106.4	107.5	109.9	112.6	117.9	125.1	134.4	134.9
58°	1195.0	392.1	132.1	106.2	106.4	109.1	112.2	117.4	124.7	134.7	135.3
60°	1195.3	408.1	130.2	104.7	102.5	106.9	110.3	115.4	123.7	136.0	137.3
62.5°	1152.9	407.9	128.7	102.3	98.5	103.8	107.6	113.7	122.9	138.9	141.4
65°	1015.2	370.7	122.2	99.0	95.1	101.0	105.6	112.6	125.4	151.6	153.3
67.5°	794.0	303.8	110.0	94.1	90.8	98.3	104.2	112.4	127.9	154.6	155.6
70°	525.0	227.4	96.5	88.7	86.3	95.0	104.8	118.2	125.0	148.4	145.6
72.5°	272.5	159.5	85.7	81.7	81.1	92.0	114.8	117.6	122.0	139.5	136.2
75°	143.0	110.9	76.1	74.1	75.0	91.4	135.5	114.4	118.2	133.6	140.1
77.5°	87.6	89.4	68.1	67.3	68.9	89.3	135.3	110.5	112.6	122.9	130.2
80°	58.6	72.6	61.9	62.1	63.2	81.7	121.5	104.3	106.0	116.2	123.5
82.5°	37.1	42.8	56.1	59.1	57.5	67.5	103.2	95.0	97.3	132.9	140.4
85°	18.8	26.9	48.8	56.9	51.9	47.3	83.7	83.3	84.4	95.8	100.2
87.5°	8.7	14.8	38.1	49.6	39.2	29.5	60.8	61.8	66.6	68.1	68.1
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)