

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: P268177

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268177
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24297)
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-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3581.4 lumens
Efficiency: N/A
Efficacy: 81.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B0 - U0 - G0

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

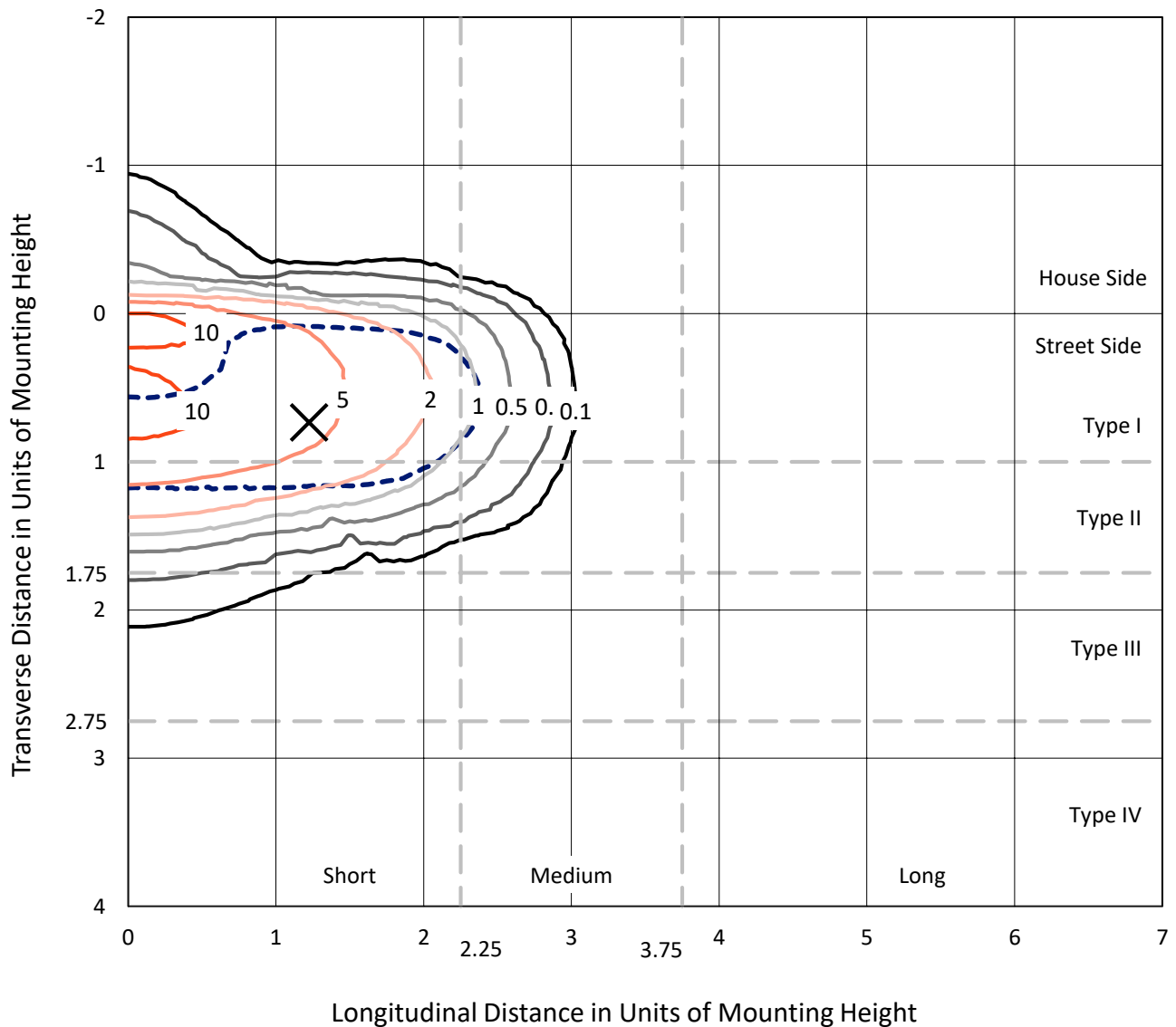


REPORT NUMBER: P268177

CATALOG NUMBER: GAN-AF-01-LED-U-AFL-7027-800-HSS

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

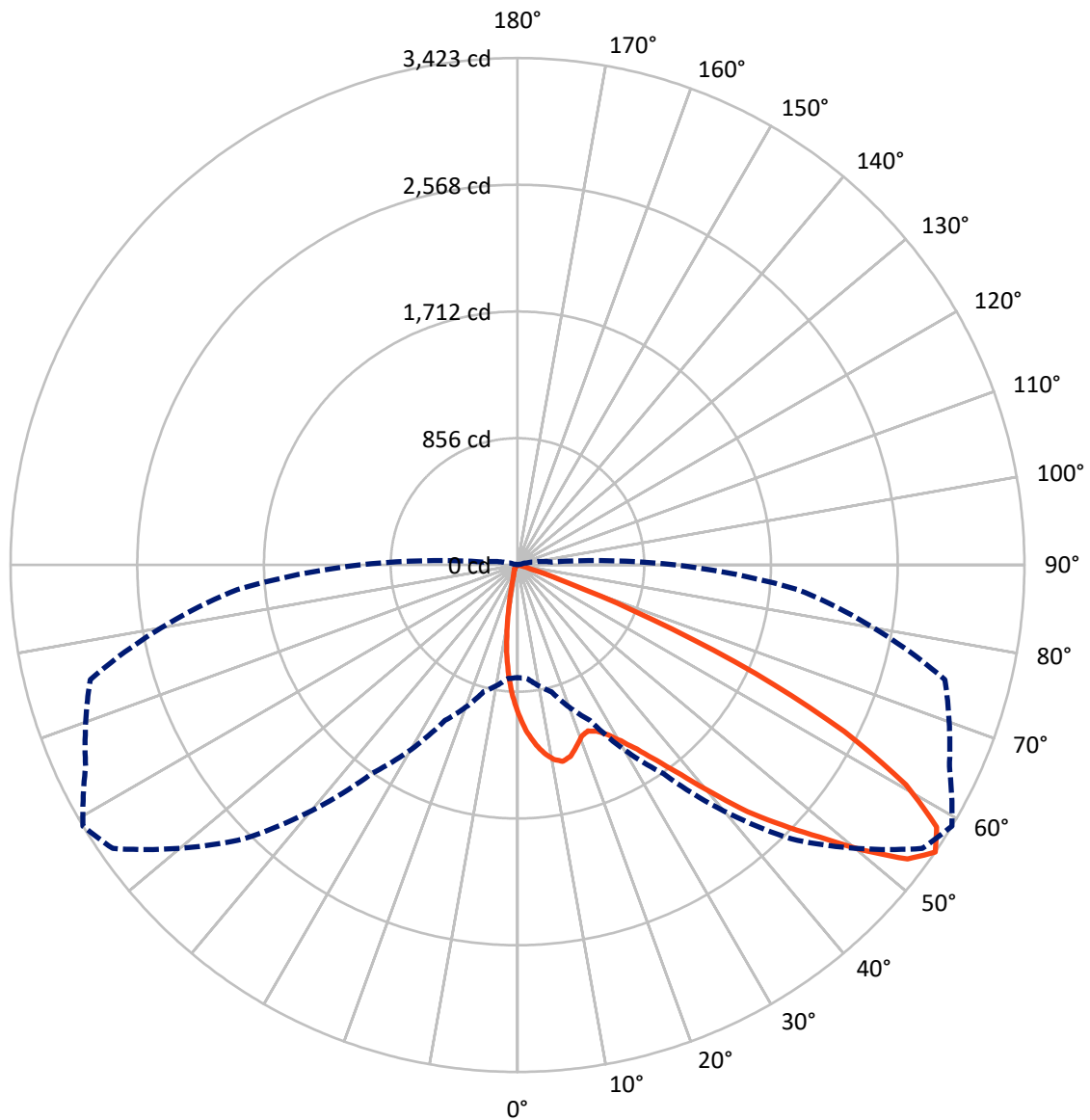


Based on 10 foot mounting height. Maximum calculated value = 12.5 fc
 Type II - Short - Full Cutoff

REPORT NUMBER: P268177

CATALOG NUMBER: GAN-AF-01-LED-U-AFL-7027-800-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

REPORT NUMBER: P268177

CATALOG NUMBER: GAN-AF-01-LED-U-AFL-7027-800-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	200.0	0.0	200.0
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	3381.4	0.0	3381.4
	% Fixture	94.4	0.0	94.4
Total	Lumens	3581.4	0.0	3581.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.4	2.4
10°-20°	202.2	5.6
20°-30°	344.0	9.6
30°-40°	591.7	16.5
40°-50°	913.5	25.5
50°-60°	918.3	25.6
60°-70°	470.9	13.1
70°-80°	51.0	1.4
80°-90°	5.3	0.1
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°	3581.4	100.0
0°-180°	3581.4	100.0



REPORT NUMBER: P268177

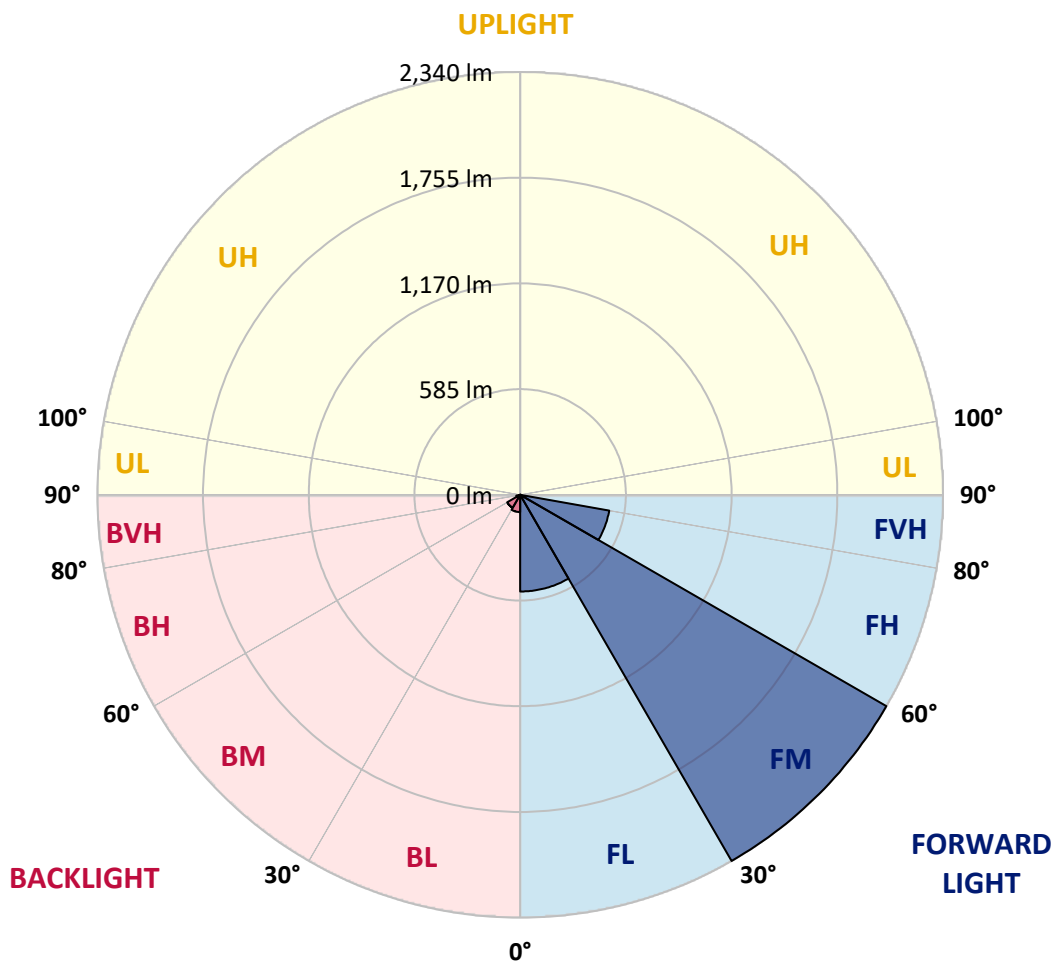
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	535.2	14.9			
FM	(30°-60°)	2340.4	65.3			
FH	(60°-80°)	500.5	14.0			G0/660
FVH	(80°-90°)	5.2	0.1			G0/10
BL	(0°-30°)	95.5	2.7	B0/110		
BM	(30°-60°)	83.0	2.3	B0/220		
BH	(60°-80°)	21.4	0.6	B0/110		G0/110
BVH	(80°-90°)	0.1	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G0

Type II Short





REPORT NUMBER: P268177

CATALOG NUMBER: GAN-AF-01-LED-U-AFL-7027-800-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	1008.2	1008.2	1008.2	1008.2	1008.2	1008.2	1008.2	1008.2	1008.2	1008.2	1008.2
2.5°	1192.9	1180.3	1176.4	1173.8	1162.2	1147.7	1127.8	1118.5	1099.4	1068.9	1031.3
5°	1302.2	1299.8	1291.4	1286.7	1274.2	1253.6	1221.9	1206.7	1176.4	1124.8	1057.5
7.5°	1254.5	1268.9	1280.7	1300.0	1324.6	1323.7	1297.2	1281.3	1247.3	1179.4	1086.6
10°	1069.9	1081.6	1100.8	1144.9	1234.9	1314.4	1345.8	1334.3	1307.3	1229.4	1114.6
12.5°	1033.7	1032.4	1035.8	1048.7	1095.8	1209.2	1337.4	1360.6	1355.1	1275.4	1141.2
15°	1053.0	1051.5	1051.0	1055.5	1066.8	1114.6	1275.6	1341.7	1384.2	1317.9	1163.9
17.5°	1106.8	1100.6	1097.1	1093.5	1090.2	1102.0	1201.2	1289.1	1388.6	1355.1	1182.8
20°	1199.1	1188.6	1176.2	1155.8	1136.8	1131.0	1169.9	1234.9	1372.7	1383.3	1194.9
22.5°	1315.3	1301.7	1280.2	1243.2	1204.4	1182.1	1185.3	1217.8	1349.1	1414.2	1200.8
25°	1445.6	1428.3	1399.6	1348.3	1291.4	1251.7	1230.9	1242.4	1338.3	1450.4	1207.2
27.5°	1585.4	1566.1	1528.6	1458.6	1394.1	1340.5	1298.1	1296.7	1356.7	1497.7	1217.8
30°	1723.8	1720.9	1671.8	1597.8	1512.4	1447.1	1386.3	1378.4	1408.1	1563.2	1238.8
32.5°	1908.4	1886.4	1826.3	1750.2	1651.8	1573.3	1501.2	1483.1	1486.9	1639.4	1271.1
35°	2141.4	2117.1	2032.5	1927.6	1817.5	1724.8	1645.2	1620.5	1611.2	1764.5	1325.5
37.5°	2291.9	2291.4	2238.4	2131.5	2013.3	1911.2	1824.5	1795.6	1776.8	1915.2	1410.2
40°	2296.0	2305.9	2312.9	2311.8	2227.6	2133.7	2056.7	2020.9	1977.2	2116.9	1519.5
42.5°	2172.7	2198.3	2259.7	2364.2	2414.0	2376.6	2311.8	2276.8	2211.5	2332.7	1652.6
45°	2006.2	2023.9	2131.5	2323.8	2515.2	2617.7	2568.2	2505.5	2419.6	2557.8	1771.9
47.5°	1931.5	1934.7	2004.3	2215.4	2522.7	2815.0	2845.0	2743.0	2608.5	2739.1	1865.4
50°	1708.5	1714.2	1810.3	2027.6	2433.5	2908.3	3123.1	3026.4	2814.6	2878.9	1899.5
52.5°	1287.8	1295.8	1417.5	1718.7	2188.4	2868.5	3322.3	3298.8	3040.4	2947.1	1901.4
55°	759.8	770.3	886.6	1156.9	1721.2	2615.8	3337.1	3423.4	3218.4	2987.6	1898.4
57.5°	354.9	362.2	428.9	596.0	1070.5	2067.3	3114.3	3337.9	3316.8	3008.9	1919.3
60°	188.6	190.6	206.7	258.1	483.7	1310.7	2679.6	3014.2	3227.3	3038.4	1944.9
62.5°	144.2	144.7	143.9	150.0	203.3	581.8	2025.4	2478.0	2866.4	3016.1	1916.5
65°	125.0	125.9	120.1	118.5	130.4	207.6	1203.2	1766.2	2252.4	2716.7	1723.6
67.5°	112.0	112.5	105.2	99.2	101.1	112.2	474.8	966.9	1490.8	1991.5	1249.4
70°	103.1	102.8	95.0	85.2	82.5	76.7	150.9	354.4	712.4	1009.9	581.1
72.5°	91.3	91.4	87.8	75.0	68.5	53.7	70.0	103.3	212.5	275.2	136.2
75°	80.9	79.9	75.3	67.3	56.5	35.4	34.7	46.1	65.5	65.0	29.4
77.5°	58.5	57.5	59.0	55.2	43.3	22.8	17.3	22.2	26.6	25.8	8.3
80°	42.8	42.3	38.1	45.9	38.3	15.6	10.8	11.9	13.7	11.6	2.5
82.5°	29.4	29.1	26.8	25.3	21.7	9.5	6.7	7.4	8.9	6.6	1.3
85°	4.6	5.3	19.5	15.5	12.8	4.2	4.6	5.1	5.8	3.7	0.4
87.5°	0.0	0.0	9.2	8.1	2.5	1.6	2.8	3.0	3.0	1.8	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P268177

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1008.2	1008.2	1008.2	1008.2	1008.2	1008.2	1008.2	1008.2	1008.2	1008.2	1008.2
2.5°	1012.0	990.8	951.8	911.4	874.0	829.3	798.8	775.6	749.0	741.8	757.5
5°	1018.9	979.1	894.9	803.4	717.3	622.0	549.1	491.5	439.2	421.5	437.6
7.5°	1029.9	970.4	833.4	682.7	533.1	384.2	282.3	215.4	172.7	160.0	166.7
10°	1041.0	958.3	762.1	539.8	335.2	187.0	121.7	97.2	88.2	86.2	87.2
12.5°	1049.9	941.9	675.3	383.8	179.2	100.3	79.7	75.6	74.4	74.4	74.7
15°	1055.5	916.9	572.3	244.1	103.1	75.6	69.4	68.4	68.4	68.5	68.9
17.5°	1054.9	885.2	459.8	147.7	77.2	67.1	63.4	62.3	62.2	62.5	62.8
20°	1047.1	843.7	346.7	97.5	67.3	61.1	57.5	55.5	55.3	55.9	56.2
22.5°	1032.2	792.6	247.9	75.0	60.6	55.3	50.9	49.2	49.2	49.6	50.0
25°	1014.2	730.1	169.5	63.6	54.7	49.2	45.0	43.6	43.9	45.0	45.3
27.5°	991.9	659.6	115.3	54.5	47.6	43.1	40.0	38.8	40.0	41.4	41.9
30°	972.7	586.4	82.3	47.2	40.3	37.2	35.4	35.4	36.8	39.5	40.2
32.5°	957.9	515.3	63.4	41.6	35.0	32.2	31.4	32.2	34.7	37.4	38.1
35°	955.9	456.8	53.7	37.2	31.4	28.6	28.0	30.1	32.2	34.5	34.9
37.5°	970.4	402.6	48.4	33.5	27.8	25.3	25.0	27.3	29.6	32.1	32.8
40°	998.2	360.1	44.6	30.3	25.2	22.4	21.6	23.3	26.4	29.9	30.6
42.5°	1034.2	325.0	40.3	26.8	22.4	18.7	17.5	19.5	22.8	26.4	27.5
45°	1068.4	294.9	35.8	23.0	18.9	14.4	14.0	16.4	18.1	21.7	22.5
47.5°	1087.2	268.2	31.7	18.9	14.6	11.6	11.6	12.2	14.0	18.1	19.0
50°	1080.9	246.9	27.5	14.0	10.2	8.9	8.9	8.7	11.1	14.6	15.2
52.5°	1068.2	234.5	23.6	10.8	6.9	6.4	5.7	6.4	7.8	9.3	9.5
55°	1066.3	232.5	19.9	8.7	4.9	4.2	3.1	3.1	3.1	3.0	2.5
57.5°	1081.1	235.9	16.7	6.9	3.7	2.8	1.6	0.0	0.0	0.0	0.0
60°	1096.3	239.5	14.4	4.9	2.5	1.4	0.2	0.0	0.0	0.0	0.0
62.5°	1070.9	231.5	12.0	3.0	1.8	0.5	0.0	0.0	0.0	0.0	0.0
65°	940.7	197.0	9.5	2.2	1.3	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	669.1	132.0	6.4	1.3	0.2	0.0	0.0	0.0	0.0	0.0	0.0
70°	305.5	55.2	4.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	65.2	17.1	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	13.4	12.4	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	4.2	19.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	2.5	14.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.4	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)