

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: P268197

Luminaire Tested: **GAN-AF-01-LED-U-SL3-7027-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268197
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24289)
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-SL3-7027-800-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3737.5 lumens
Efficiency: N/A
Efficacy: 84.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B0 - 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

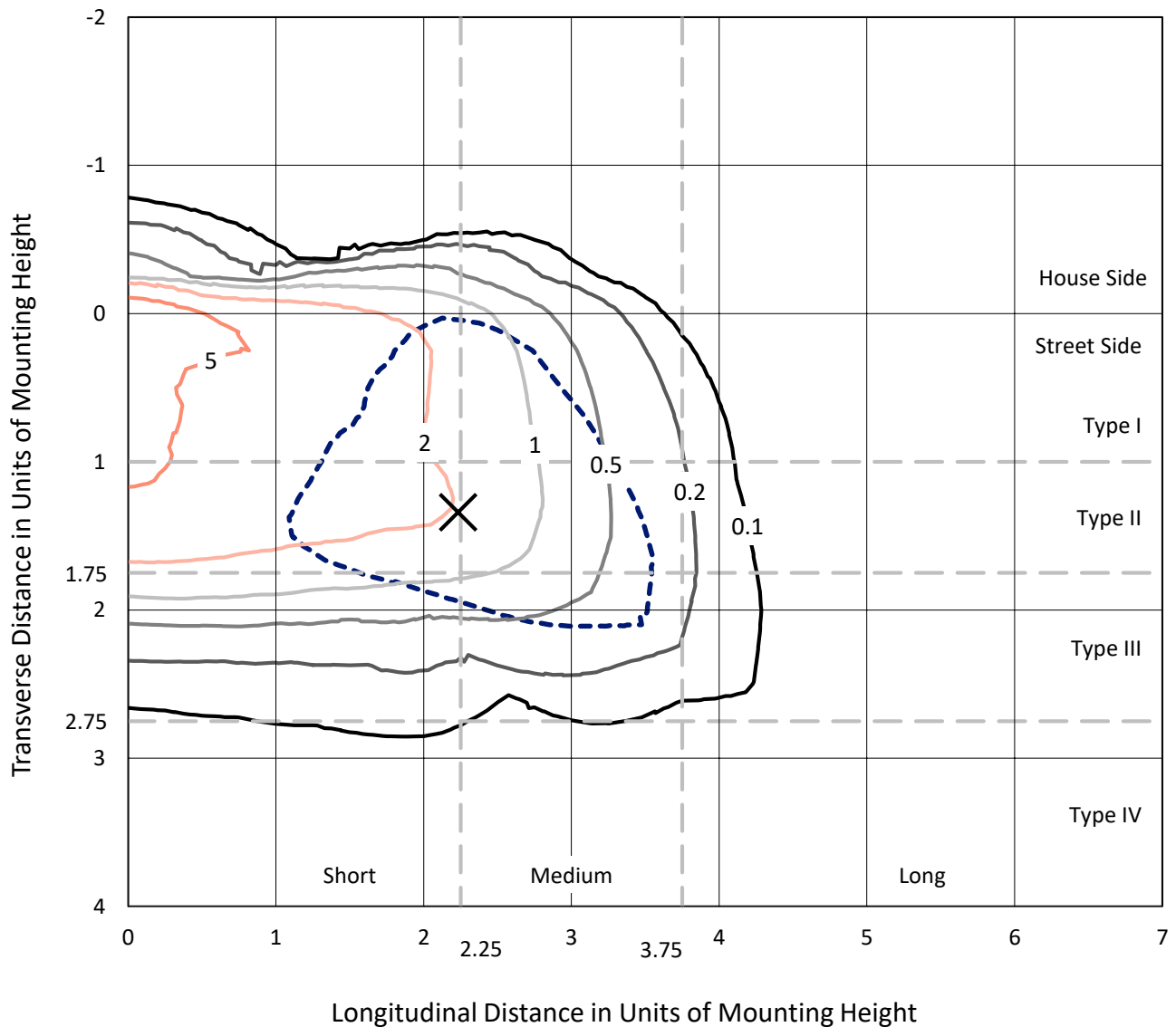


REPORT NUMBER: P268197

CATALOG NUMBER: GAN-AF-01-LED-U-SL3-7027-800-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

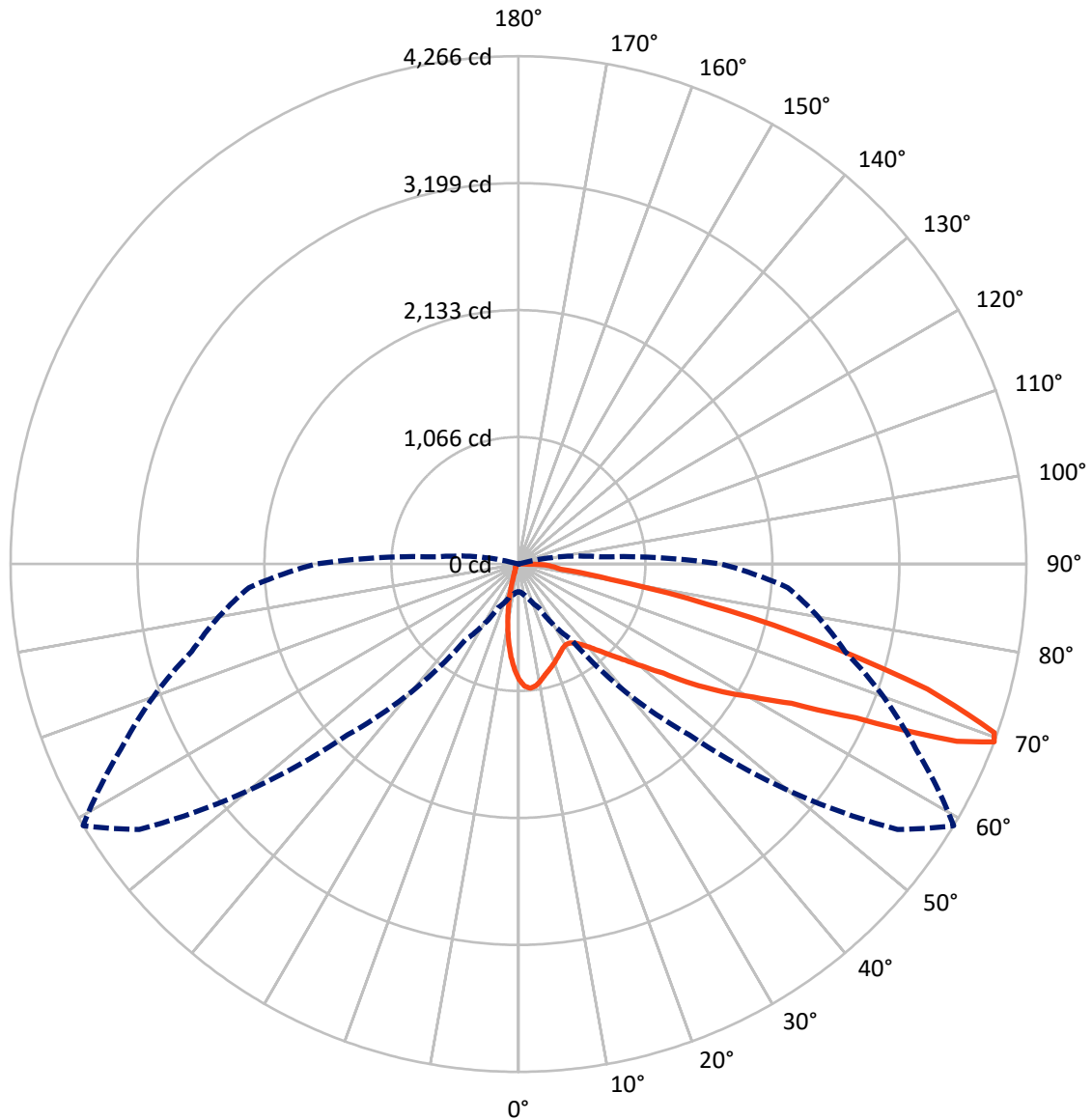


Based on 10 foot mounting height. Maximum calculated value = 9.8 fc
 Type III - Short - Non-Cutoff

REPORT NUMBER: P268197

CATALOG NUMBER: GAN-AF-01-LED-U-SL3-7027-800-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical



REPORT NUMBER: P268197

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	304.4	0.0	304.4
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	3433.1	0.0	3433.1
	% Fixture	91.9	0.0	91.9
Total	Lumens	3737.5	0.0	3737.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.0	2.1
10°-20°	163.2	4.4
20°-30°	219.6	5.9
30°-40°	318.8	8.5
40°-50°	530.8	14.2
50°-60°	828.0	22.2
60°-70°	1024.6	27.4
70°-80°	519.3	13.9
80°-90°	54.3	1.5
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°	3737.5	100.0
0°-180°	3737.5	100.0

Coefficient of Utilization



REPORT NUMBER: P268197

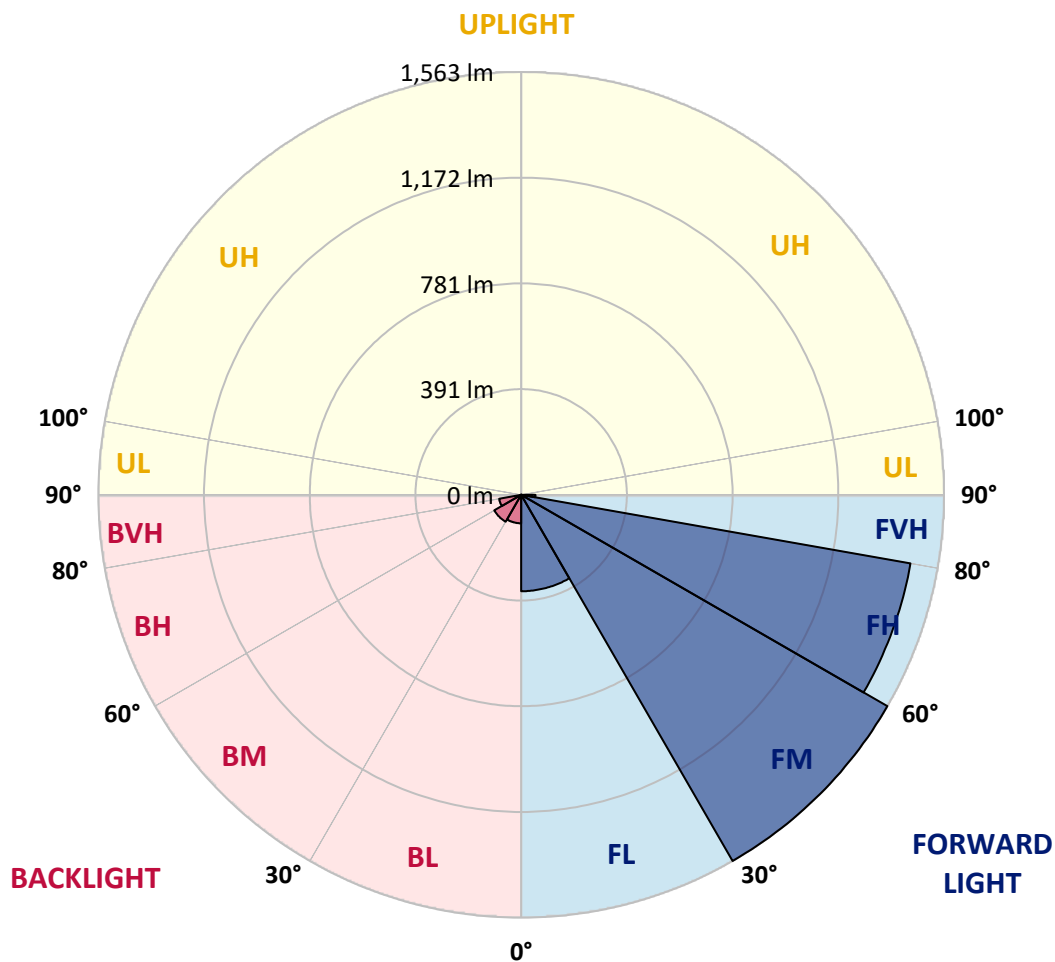
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	356.3	9.5			
FM	(30°-60°)	1562.9	41.8			
FH	(60°-80°)	1461.2	39.1			G1/1800
FVH	(80°-90°)	52.7	1.4			G1/100
BL	(0°-30°)	105.4	2.8	B0/110		
BM	(30°-60°)	114.7	3.1	B0/220		
BH	(60°-80°)	82.7	2.2	B0/110		G0/110
BVH	(80°-90°)	1.7	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-G1

Type III Short





REPORT NUMBER: P268197

CATALOG NUMBER: GAN-AF-01-LED-U-SL3-7027-800-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	972.9	972.9	972.9	972.9	972.9	972.9	972.9	972.9	972.9	972.9	972.9
2.5°	1066.2	1065.7	1061.2	1059.0	1055.1	1047.2	1034.8	1028.2	1017.6	999.3	974.5
5°	1056.4	1061.5	1064.3	1064.5	1067.2	1064.3	1053.2	1047.7	1033.1	1003.4	959.1
7.5°	990.7	992.4	1000.4	1007.1	1020.1	1032.6	1036.6	1034.3	1025.7	994.0	935.0
10°	920.0	921.9	931.2	940.0	957.9	977.0	997.3	1001.6	1005.2	980.4	911.7
12.5°	859.0	861.0	870.5	882.1	902.8	926.5	958.0	965.0	980.9	967.6	893.2
15°	806.7	807.5	816.9	831.2	855.9	886.4	922.1	933.2	957.7	958.4	876.8
17.5°	762.1	764.2	769.9	783.6	810.7	848.3	890.0	906.0	934.5	950.9	861.0
20°	734.9	737.0	736.7	744.3	768.7	808.8	857.8	877.0	911.7	943.0	846.8
22.5°	729.6	729.6	724.0	723.0	737.4	770.9	824.5	847.9	891.3	939.6	837.0
25°	748.4	747.5	733.7	722.5	723.2	743.3	792.1	820.1	874.0	942.0	831.7
27.5°	788.2	787.0	769.7	748.4	731.2	731.0	767.6	797.7	860.1	952.9	833.7
30°	843.1	842.6	823.8	796.9	766.0	737.4	759.2	786.3	851.4	972.9	838.6
32.5°	903.1	902.4	888.2	859.9	820.6	766.0	768.1	790.9	853.7	999.3	850.4
35°	966.7	965.6	959.5	934.7	891.5	818.5	797.2	814.9	869.9	1038.8	873.7
37.5°	1035.6	1036.6	1041.0	1017.4	972.0	892.2	846.1	858.1	902.2	1092.3	911.5
40°	1137.3	1137.1	1138.5	1107.4	1063.8	982.6	914.2	918.1	956.3	1163.7	969.0
42.5°	1321.8	1308.8	1269.8	1206.3	1162.3	1085.7	1000.4	996.3	1022.5	1251.8	1049.5
45°	1569.7	1542.2	1440.7	1319.3	1262.9	1201.9	1106.2	1093.2	1109.9	1357.7	1148.8
47.5°	1782.9	1754.4	1610.9	1436.7	1369.7	1312.2	1230.1	1207.1	1212.5	1476.3	1274.9
50°	1855.4	1841.4	1716.1	1538.9	1473.1	1451.1	1374.1	1345.8	1338.0	1613.4	1420.8
52.5°	1830.2	1829.2	1745.6	1605.5	1567.7	1594.9	1555.2	1522.4	1493.8	1758.0	1569.3
55°	1789.9	1795.2	1757.8	1663.5	1662.3	1726.1	1803.0	1775.7	1692.4	1914.9	1697.4
57.5°	1678.6	1701.1	1750.9	1773.3	1825.4	1890.8	2009.2	2025.3	1926.9	2035.2	1803.8
60°	1361.9	1411.5	1574.6	1789.2	2035.6	2198.4	2258.2	2272.0	2119.1	2135.2	1947.3
62.5°	966.7	1017.4	1224.3	1587.1	2038.9	2602.7	2629.1	2575.3	2330.9	2283.3	2194.7
65°	513.1	552.3	721.2	1145.7	1767.7	2696.5	3277.7	3117.1	2704.5	2574.8	2514.5
67.5°	262.5	274.3	341.5	560.7	1215.2	2395.2	3859.1	3972.2	3348.5	2863.9	2499.2
69°	232.2	239.3	283.9	405.3	778.1	2028.7	3887.4	4265.7	3685.7	2839.8	2271.1
70°	224.8	231.0	271.6	366.9	608.2	1701.3	3779.0	4240.0	3771.9	2748.2	2100.7
72.5°	190.8	196.1	241.7	324.2	494.3	844.5	3069.8	3592.9	3384.6	2289.3	1520.7
75°	127.6	144.9	232.0	303.8	459.9	479.8	2023.8	2596.3	2411.9	1544.0	792.1
77.5°	30.6	33.0	65.5	241.7	420.5	422.3	1040.9	1614.1	1316.5	550.3	187.2
80°	16.4	15.8	18.3	48.0	391.7	396.2	468.6	783.4	470.1	91.3	61.8
82.5°	11.6	11.0	11.9	20.1	123.2	360.9	339.0	354.7	194.8	35.0	27.7
85°	4.2	4.0	6.6	18.1	38.6	207.6	348.4	292.5	157.9	16.1	20.3
87.5°	1.4	1.3	2.5	9.9	11.9	88.4	215.0	221.1	62.2	9.7	9.5
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: P268197

CATALOG NUMBER: GAN-AF-01-LED-U-SL3-7027-800-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	972.9	972.9	972.9	972.9	972.9	972.9	972.9	972.9	972.9	972.9	972.9
2.5°	964.2	951.0	927.0	902.2	879.4	852.0	838.2	824.6	819.0	816.9	806.9
5°	936.3	914.0	862.9	811.6	764.2	714.0	680.7	654.1	638.4	630.9	618.8
7.5°	900.6	864.2	786.6	707.3	633.7	560.9	507.1	465.6	437.0	423.3	410.9
10°	865.8	817.5	707.1	599.2	499.0	402.6	328.2	274.3	239.8	224.0	213.8
12.5°	834.9	772.1	630.4	493.7	367.9	255.1	179.4	136.5	115.3	107.7	104.3
15°	807.1	730.2	557.9	393.5	249.2	145.9	98.1	83.5	80.0	80.0	79.7
17.5°	780.8	689.2	488.0	299.4	156.3	89.2	74.6	72.8	72.8	73.5	73.5
20°	755.7	650.2	420.3	215.0	98.5	70.7	67.5	67.1	67.5	68.5	68.5
22.5°	734.3	614.6	357.2	147.5	73.1	63.8	62.2	61.5	61.8	62.3	62.8
25°	718.1	584.5	297.6	100.0	63.1	58.1	56.2	55.2	54.3	54.3	54.7
27.5°	708.0	559.3	239.8	72.8	56.7	52.8	49.9	48.1	46.4	45.3	45.6
30°	700.6	535.1	185.8	59.4	50.8	46.9	43.1	40.3	37.5	36.3	36.8
32.5°	697.9	515.6	138.9	52.5	45.5	41.2	36.7	33.0	30.1	28.9	29.1
35°	705.3	500.3	101.7	47.3	41.2	35.9	30.6	26.6	24.3	23.6	23.9
37.5°	724.8	492.0	76.0	43.1	37.4	31.5	25.6	21.7	20.3	20.3	20.5
40°	761.5	491.8	61.1	40.2	34.0	27.3	21.1	18.3	17.5	18.0	18.1
42.5°	815.1	503.1	53.3	37.4	31.1	23.3	17.5	15.6	15.5	15.8	16.1
45°	888.6	523.5	49.0	35.0	27.8	19.5	14.8	13.6	13.6	14.2	14.4
47.5°	978.3	553.5	45.5	32.8	24.8	16.3	12.7	11.9	12.0	12.7	12.8
50°	1086.5	591.4	41.9	30.3	22.4	13.6	11.0	10.4	10.6	11.4	11.6
52.5°	1209.7	642.3	38.8	27.8	19.5	11.1	9.3	8.9	9.3	10.2	10.4
55°	1315.4	687.9	35.4	26.1	15.6	9.3	7.6	7.6	8.1	9.2	9.3
57.5°	1417.0	735.7	32.1	22.4	12.2	7.4	6.4	6.6	7.1	8.3	8.4
60°	1566.3	816.6	28.3	18.9	9.3	5.8	5.3	5.5	6.4	7.4	7.6
62.5°	1819.6	939.8	24.6	15.6	7.1	4.6	4.2	4.6	5.7	6.9	7.1
65°	2048.3	989.9	20.1	13.1	5.5	3.7	3.7	4.2	5.5	6.7	6.9
67.5°	1920.8	833.4	15.6	10.4	4.2	2.8	3.0	4.0	5.3	6.7	6.9
69°	1698.8	681.4	13.4	8.3	3.7	2.5	2.8	4.0	5.3	6.6	6.7
70°	1525.7	575.3	11.9	6.9	3.1	2.5	2.8	3.9	5.3	6.6	6.7
72.5°	1021.8	310.6	9.5	5.1	3.0	2.3	2.3	3.9	5.1	6.4	6.6
75°	439.2	85.8	7.6	3.7	2.5	2.2	2.2	3.7	4.9	6.1	6.6
77.5°	80.3	21.7	6.1	3.1	2.5	2.2	1.8	3.4	4.6	5.8	6.1
80°	31.9	10.8	4.9	2.8	2.3	1.8	1.6	3.1	4.4	5.7	5.8
82.5°	19.3	6.1	4.0	2.5	2.3	1.6	1.4	2.8	4.2	5.5	5.7
85°	15.6	4.2	3.1	2.5	2.2	1.6	1.3	2.5	3.9	5.3	5.5
87.5°	7.6	3.0	3.0	2.3	2.2	1.6	1.3	2.3	3.7	5.1	5.3
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)