

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: P321975

Luminaire Tested: **GAN-SA1D-750-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321975
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1D-750-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5780 lumens
Efficiency: N/A
Efficacy: 86.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

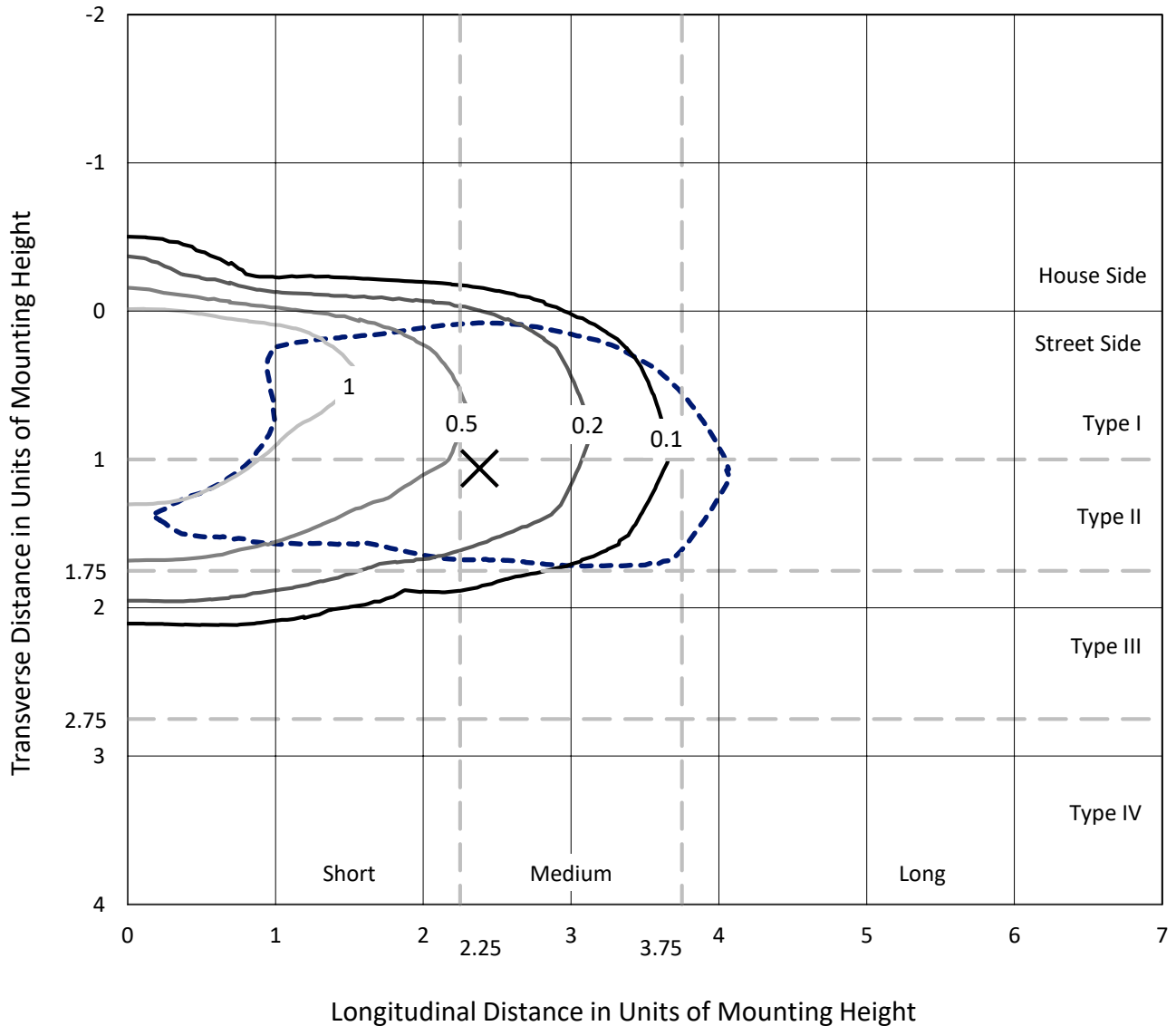
Input Watts (W): 67
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

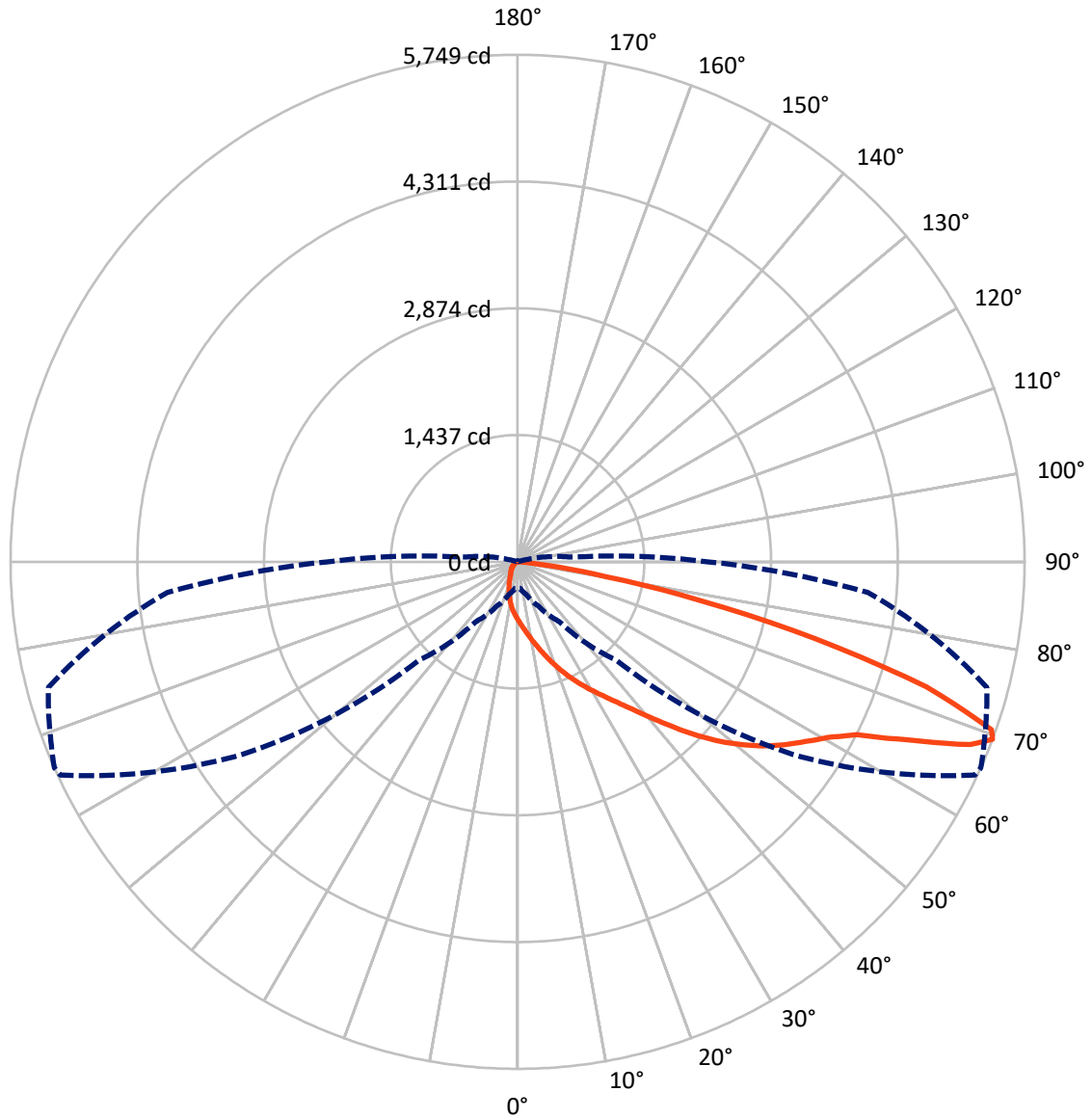
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	346.7	0.0	346.7
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	5433.3	0.0	5433.3
	% Fixture	94.0	0.0	94.0
Total	Lumens	5780.0	0.0	5780.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.6	1.1
10°-20°	189.2	3.3
20°-30°	329.5	5.7
30°-40°	578.2	10.0
40°-50°	967.7	16.7
50°-60°	1422.5	24.6
60°-70°	1460.5	25.3
70°-80°	721.0	12.5
80°-90°	47.7	0.8
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°	5780.0	100.0
0°-180°	5780.0	100.0

Coefficient of Utilization

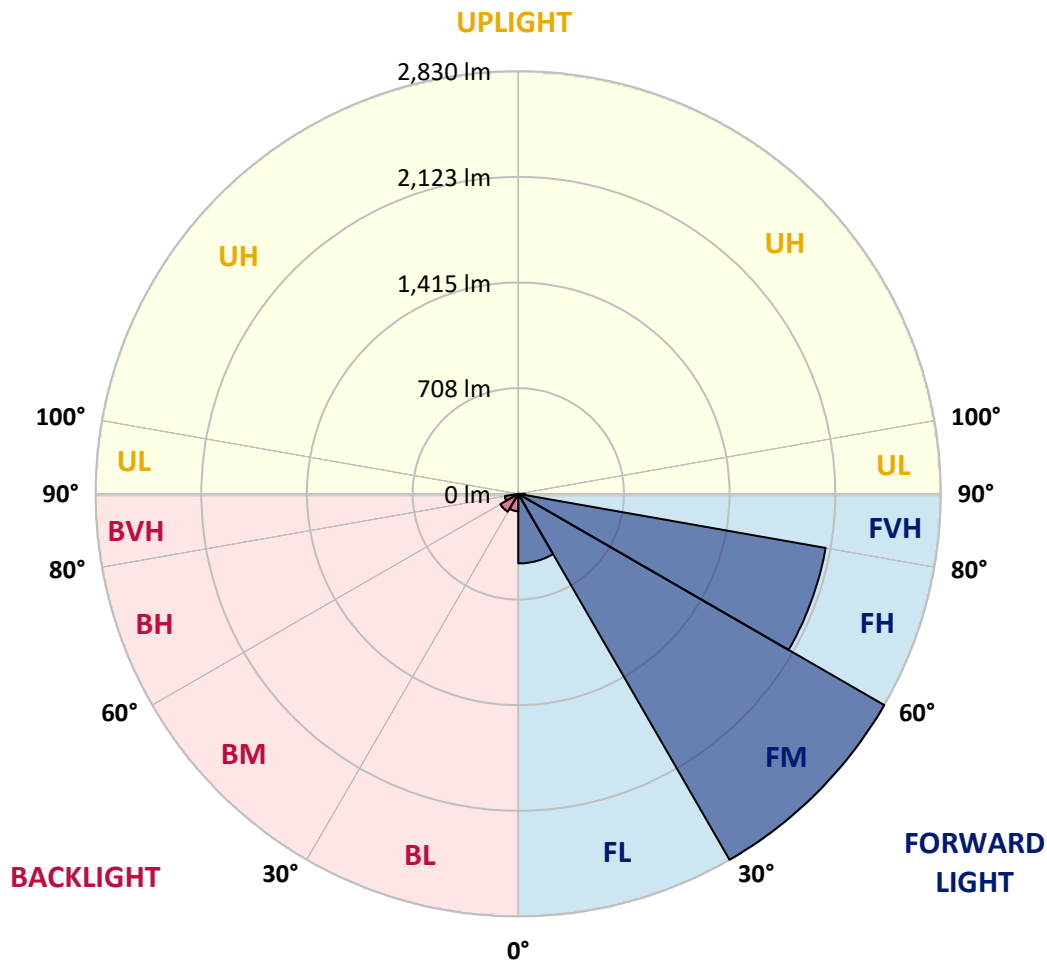


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	466.4	8.1			
FM (30°-60°)	2830.2	49.0			
FH (60°-80°)	2090.2	36.2			G2/5000
FVH (80°-90°)	46.5	0.8			G1/100
BL (0°-30°)	116.0	2.0	B1/500		
BM (30°-60°)	138.2	2.4	B0/220		
BH (60°-80°)	91.4	1.6	B0/110		G0/110
BVH (80°-90°)	1.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	657.8	657.8	657.8	657.8	657.8	657.8	657.8	657.8	657.8	657.8	657.8
2.5°	774.2	770.9	769.5	763.5	753.0	745.1	729.7	711.9	708.6	691.3	670.1
5°	874.7	871.9	870.0	861.5	850.8	830.7	802.7	769.5	763.2	730.3	688.0
7.5°	944.7	949.6	949.6	944.1	930.7	915.6	881.3	836.0	828.0	777.5	711.9
10°	985.6	991.6	996.3	1000.9	999.0	993.0	960.6	909.5	899.9	832.9	739.6
12.5°	989.4	995.5	1008.6	1028.1	1047.1	1060.8	1040.5	991.1	980.1	897.2	772.5
15°	968.0	974.3	994.6	1032.5	1078.4	1118.4	1125.0	1081.4	1070.1	973.8	813.7
17.5°	930.7	934.8	963.9	1016.3	1088.3	1161.8	1201.6	1178.3	1167.9	1061.3	859.6
20°	902.9	906.0	931.5	987.8	1082.2	1189.0	1274.1	1281.2	1270.3	1155.2	909.3
22.5°	950.4	955.9	956.7	983.4	1065.7	1202.5	1337.8	1382.6	1374.3	1254.9	958.1
25°	1080.3	1086.6	1065.7	1049.3	1079.7	1208.5	1392.4	1486.3	1479.7	1362.2	1007.3
27.5°	1251.9	1258.5	1231.6	1182.4	1153.0	1231.3	1441.0	1591.7	1591.5	1475.9	1060.2
30°	1420.4	1427.0	1399.6	1350.4	1282.9	1295.8	1483.0	1702.1	1703.8	1593.1	1116.5
32.5°	1597.2	1605.5	1577.2	1514.1	1443.5	1407.3	1542.1	1813.0	1822.4	1729.0	1179.9
35°	1798.2	1799.3	1759.5	1693.3	1612.1	1556.3	1636.8	1937.4	1959.6	1897.3	1260.4
37.5°	1995.3	2003.3	1970.6	1866.3	1791.6	1728.5	1777.6	2092.8	2124.3	2102.9	1365.5
40°	2141.4	2158.1	2153.4	2040.9	1970.1	1925.0	1952.5	2277.5	2317.6	2342.3	1498.1
42.5°	2233.1	2245.7	2267.1	2199.3	2135.0	2142.5	2158.9	2492.8	2542.2	2615.2	1650.5
45°	2338.2	2344.2	2362.1	2332.2	2288.8	2363.5	2378.0	2735.2	2787.1	2908.7	1819.6
47.5°	2466.7	2481.0	2485.9	2458.4	2438.7	2558.9	2589.1	2955.6	3028.4	3223.0	1998.6
50°	2630.3	2634.2	2642.7	2624.8	2605.0	2726.9	2778.6	3187.1	3253.2	3538.5	2175.1
52.5°	2790.4	2804.1	2833.7	2822.5	2814.5	2870.0	2947.4	3395.7	3469.6	3801.5	2351.4
55°	2836.5	2848.3	2950.7	3020.7	3085.5	3046.2	3108.8	3582.7	3662.6	4036.5	2521.0
57.5°	2652.3	2676.2	2853.5	3035.8	3304.6	3320.2	3330.6	3774.6	3846.2	4216.6	2697.6
60°	2186.7	2191.3	2482.3	2795.0	3268.3	3559.3	3654.6	3980.7	4040.9	4384.3	2909.0
62.5°	1390.8	1438.3	1757.6	2199.0	2885.1	3524.7	4046.4	4292.6	4314.6	4585.5	3212.0
65°	662.4	693.2	923.3	1358.7	2089.7	3081.9	4316.8	4856.8	4866.7	4984.4	3617.0
67.5°	366.8	381.6	491.1	731.4	1221.7	2179.5	4207.5	5525.0	5534.3	5391.8	3972.2
69°	286.9	299.5	385.7	551.3	828.3	1566.5	3807.5	5720.7	5748.5	5508.5	3984.9
70°	243.5	255.9	332.2	465.6	666.0	1210.4	3389.1	5672.1	5701.5	5497.5	3890.7
72.5°	149.1	156.2	221.3	327.8	446.4	608.9	2090.0	4796.9	4846.6	5042.9	3343.8
75°	100.5	104.3	138.4	226.2	319.3	313.5	1085.8	3381.2	3488.8	3922.8	2469.7
77.5°	71.9	75.5	92.8	146.3	223.7	207.0	491.7	2101.3	2124.3	2352.8	1346.9
80°	40.9	44.2	65.6	87.0	151.8	138.1	195.5	1003.7	1015.2	1008.9	449.7
82.5°	21.4	24.2	36.0	57.4	97.5	90.3	81.3	336.0	337.7	280.8	98.6
85°	4.1	4.9	17.8	39.3	50.2	39.3	33.2	78.8	80.4	71.1	24.4
87.5°	0.0	0.3	7.1	8.8	9.9	10.2	10.7	15.4	16.5	22.2	6.6
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°	657.8	657.8	657.8	657.8	657.8	657.8	657.8	657.8	657.8	657.8	657.8
2.5°	660.8	650.9	632.0	610.0	593.0	576.2	563.1	549.3	544.4	541.9	541.7
5°	667.4	646.5	606.4	565.3	531.5	499.7	476.9	455.2	445.0	440.4	438.4
7.5°	678.4	644.9	580.4	517.5	468.9	429.1	397.5	373.9	362.1	357.2	355.2
10°	691.3	642.7	549.9	467.0	404.9	363.8	332.5	309.1	296.2	290.7	288.0
12.5°	706.4	638.8	514.8	415.9	350.3	309.1	271.2	242.4	227.6	221.3	218.3
15°	725.0	635.0	478.0	367.9	302.3	252.0	210.6	191.1	188.1	187.0	187.2
17.5°	743.4	629.0	437.9	320.4	251.7	196.8	175.7	174.6	175.2	175.2	175.2
20°	759.9	615.2	394.2	279.7	203.7	166.1	161.7	159.8	158.4	157.3	155.9
22.5°	772.8	596.8	352.2	239.4	166.4	152.1	145.2	139.2	134.2	131.0	129.3
25°	781.6	572.4	313.8	200.7	149.6	138.4	126.0	115.9	108.2	103.5	101.6
27.5°	788.2	546.0	279.5	168.0	138.1	122.4	106.2	94.2	86.2	82.1	80.4
30°	792.9	516.1	249.3	147.7	125.2	105.7	88.4	76.6	70.8	68.6	67.5
32.5°	797.2	482.9	220.7	138.1	113.1	90.3	74.1	65.1	61.5	58.8	57.9
35°	808.2	452.2	193.5	127.9	100.8	77.1	63.7	57.1	53.5	51.9	51.3
37.5°	834.3	429.4	167.5	117.5	88.4	66.7	55.7	51.1	47.8	46.1	45.6
40°	876.3	417.8	145.5	106.2	76.3	58.8	50.5	46.1	42.6	40.1	39.5
42.5°	938.1	419.5	130.1	95.0	66.7	52.4	45.6	40.4	36.5	34.3	33.8
45°	1013.0	431.6	119.4	84.0	58.8	47.5	40.1	34.6	31.0	29.1	28.6
47.5°	1094.3	451.1	110.6	74.1	52.4	42.8	34.6	28.8	25.8	24.2	23.9
50°	1179.9	470.0	101.6	64.5	46.9	38.2	29.1	23.9	21.4	20.0	19.5
52.5°	1266.7	492.0	93.3	55.7	42.3	32.7	24.2	19.5	17.6	16.5	15.9
55°	1360.0	508.4	85.4	48.9	37.6	27.7	20.0	16.2	14.6	13.2	12.9
57.5°	1469.9	534.0	77.1	42.3	32.1	23.1	16.5	12.9	11.5	10.2	9.9
60°	1618.1	563.9	68.4	37.3	26.4	18.9	13.5	10.4	8.8	7.7	7.4
62.5°	1813.6	597.1	57.4	32.7	21.4	15.4	10.7	8.2	6.3	4.9	4.9
65°	2061.5	651.2	46.9	27.5	17.6	12.6	8.2	6.0	3.6	2.2	2.2
67.5°	2206.2	660.5	37.9	22.5	14.3	10.7	6.9	4.1	1.1	0.3	0.0
69°	2159.8	606.4	32.1	19.2	12.4	10.2	6.3	3.0	0.5	0.0	0.0
70°	2072.5	554.6	28.3	17.0	11.3	9.6	6.0	2.2	0.5	0.0	0.0
72.5°	1712.5	394.8	21.4	12.6	8.2	8.5	5.5	1.4	0.5	0.0	0.0
75°	1247.5	239.9	15.4	8.8	5.2	6.3	3.8	0.5	0.3	0.0	0.0
77.5°	694.0	113.1	9.6	4.9	3.3	3.8	1.9	0.0	0.0	0.0	0.0
80°	225.4	30.7	4.4	2.7	1.9	2.2	0.8	0.0	0.0	0.0	0.0
82.5°	41.7	8.8	2.5	1.4	0.5	0.5	0.0	0.0	0.0	0.0	0.0
85°	9.1	3.6	1.4	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.0	1.1	0.3	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)