

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: P321605

Luminaire Tested: **GAN-SA1C-740-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321605
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1C-740-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5695 lumens
Efficiency: N/A
Efficacy: 96.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

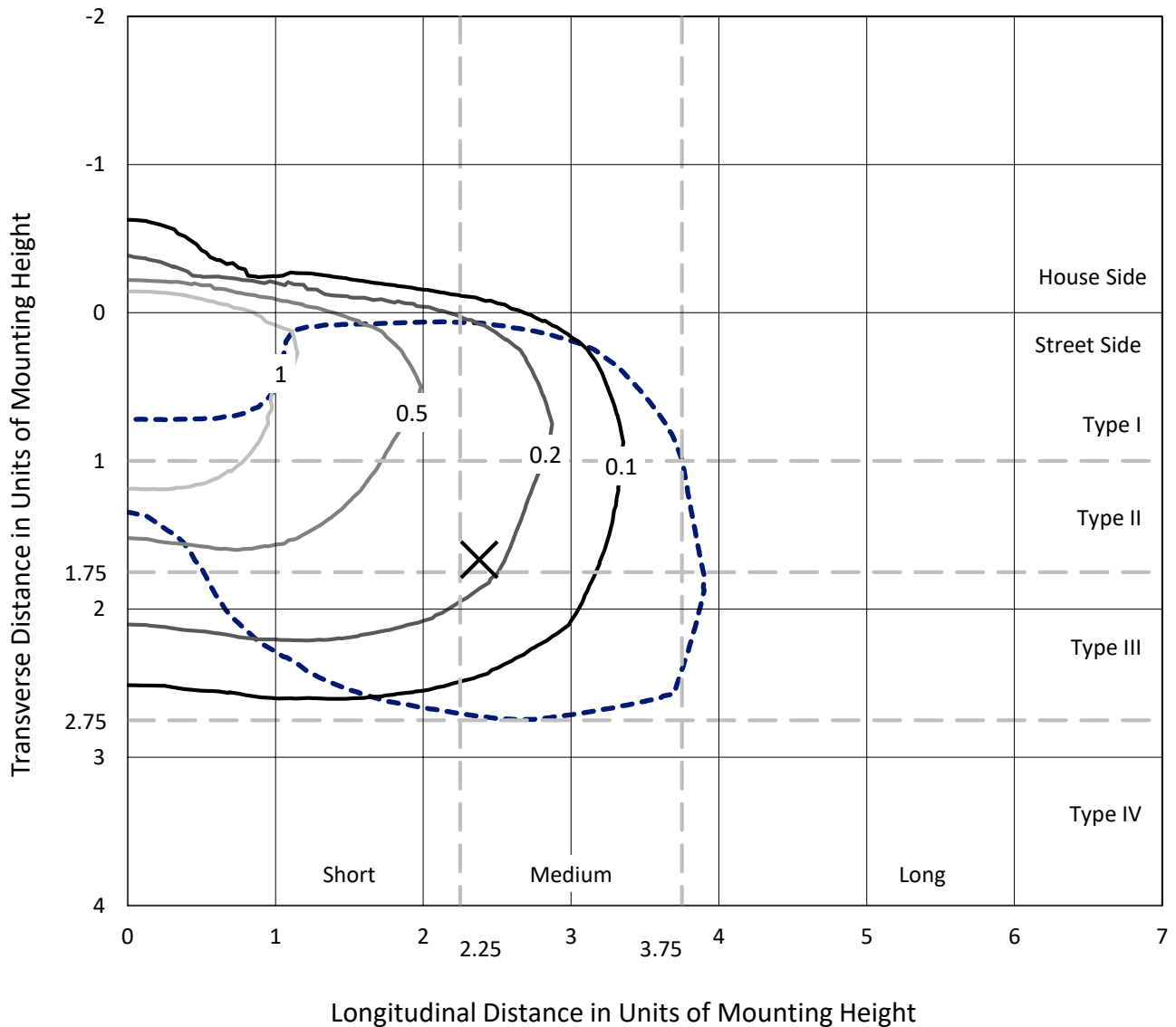
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

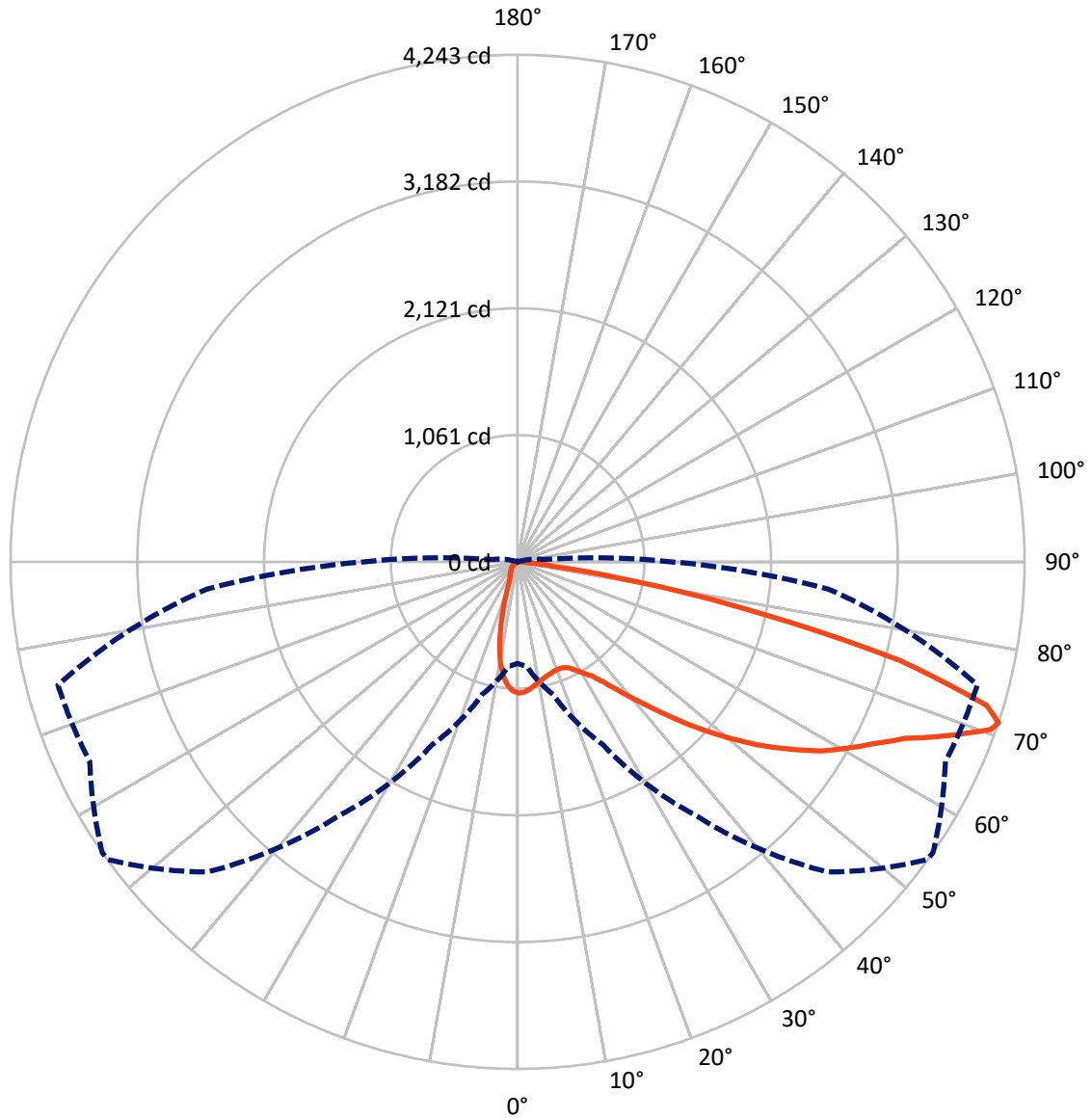
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	450.9	0.0	450.9
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	5244.1	0.0	5244.1
	% Fixture	92.1	0.0	92.1
Total	Lumens	5695.0	0.0	5695.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.6	1.6
10°-20°	211.4	3.7
20°-30°	339.7	6.0
30°-40°	577.2	10.1
40°-50°	896.0	15.7
50°-60°	1204.6	21.2
60°-70°	1473.6	25.9
70°-80°	861.6	15.1
80°-90°	37.2	0.7
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°	5695.0	100.0
0°-180°	5695.0	100.0

Coefficient of Utilization

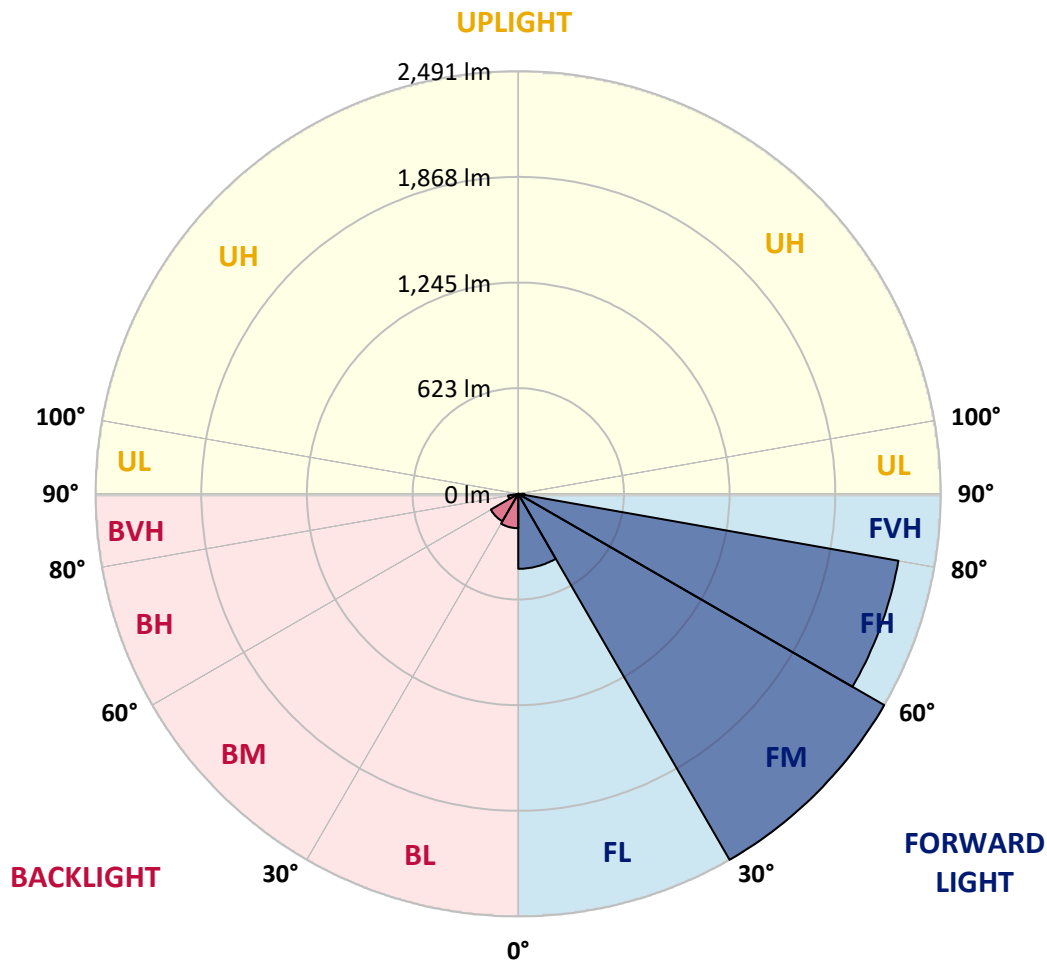


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	441.9	7.8			
FM (30°-60°)	2490.8	43.7			
FH (60°-80°)	2274.8	39.9			G2/5000
FVH (80°-90°)	36.7	0.6			G1/100
BL (0°-30°)	202.9	3.6	B1/500		
BM (30°-60°)	186.9	3.3	B0/220		
BH (60°-80°)	60.4	1.1	B0/110		G0/110
BVH (80°-90°)	0.6	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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	1098.3	1098.3	1098.3	1098.3	1098.3	1098.3	1098.3	1098.3	1098.3	1098.3	1098.3
2.5°	1066.1	1067.4	1072.0	1074.0	1078.9	1087.0	1091.1	1091.4	1098.0	1100.6	1102.6
5°	990.6	998.3	1006.0	1014.2	1029.0	1048.7	1068.1	1069.9	1091.4	1107.3	1115.7
7.5°	925.7	932.6	941.8	954.8	975.8	1006.8	1039.2	1043.1	1083.7	1119.8	1138.7
10°	859.0	864.6	877.9	897.1	925.9	967.4	1011.1	1017.5	1076.8	1136.7	1169.9
12.5°	787.6	790.9	807.0	834.7	877.1	929.8	987.3	995.8	1072.5	1156.1	1206.7
15°	733.4	734.9	750.3	778.9	827.5	896.0	968.9	979.1	1073.5	1179.4	1246.9
17.5°	719.6	720.4	728.5	748.2	791.2	865.9	954.3	966.9	1076.6	1202.1	1287.3
20°	775.6	770.2	761.8	758.7	777.1	847.7	945.6	959.7	1080.7	1222.3	1323.6
22.5°	929.3	913.4	878.4	831.6	803.2	849.0	947.9	962.0	1093.7	1247.1	1365.5
25°	1157.4	1135.4	1075.8	983.7	895.3	885.8	967.1	981.4	1119.0	1276.8	1405.7
27.5°	1416.9	1395.2	1322.3	1190.9	1040.0	958.7	1011.1	1024.4	1156.6	1303.1	1436.4
30°	1665.5	1659.3	1573.4	1424.1	1222.1	1076.8	1067.9	1079.1	1184.5	1319.0	1460.7
32.5°	1876.2	1866.5	1797.4	1652.2	1430.5	1218.7	1134.6	1137.9	1205.4	1339.4	1492.4
35°	2071.6	2059.5	1998.9	1861.6	1644.3	1392.1	1237.4	1232.6	1251.2	1380.6	1538.4
37.5°	2242.1	2253.1	2185.9	2055.2	1836.0	1572.4	1376.0	1361.4	1322.8	1447.6	1605.1
40°	2384.8	2384.8	2349.8	2240.8	2043.2	1758.8	1532.8	1513.6	1430.5	1550.9	1689.8
42.5°	2436.2	2447.2	2460.2	2398.6	2228.6	1952.6	1707.4	1687.5	1582.1	1697.4	1796.7
45°	2439.3	2456.7	2523.4	2523.2	2396.1	2145.2	1904.3	1894.9	1776.5	1885.7	1929.1
47.5°	2396.1	2417.8	2527.8	2590.1	2528.8	2324.5	2119.6	2107.9	2004.8	2116.3	2067.7
50°	2329.3	2353.4	2481.2	2616.5	2619.0	2480.4	2346.5	2328.8	2256.2	2380.0	2210.9
52.5°	2209.9	2256.4	2439.5	2622.6	2678.4	2615.2	2562.3	2554.6	2537.5	2633.9	2325.0
55°	1954.4	2006.1	2334.9	2624.7	2733.4	2734.6	2764.5	2766.6	2801.1	2871.2	2409.9
57.5°	1833.7	1862.9	2152.4	2634.4	2814.9	2870.2	2970.7	2986.5	3040.0	3096.5	2506.8
60°	1757.8	1792.3	2062.4	2621.1	2943.0	3047.9	3161.7	3167.0	3224.3	3328.9	2638.0
62.5°	1697.2	1731.2	2005.6	2569.9	3087.0	3261.7	3348.3	3348.9	3391.8	3605.9	2787.1
65°	1547.6	1576.2	1890.8	2512.4	3182.1	3473.1	3565.2	3561.9	3596.9	3897.9	2960.2
67.5°	1331.3	1353.3	1656.3	2294.3	3146.3	3665.4	3892.5	3881.5	3839.1	4150.3	3028.2
70°	1029.3	1037.2	1305.4	1912.0	2810.8	3739.3	4208.8	4203.2	3987.6	4105.0	2778.9
71°	850.8	876.9	1150.5	1687.5	2586.1	3671.1	4239.5	4242.8	3950.3	3981.8	2607.3
72.5°	494.0	516.3	833.9	1296.0	2195.6	3386.2	4080.5	4104.5	3775.9	3621.7	2227.0
75°	105.9	113.3	309.2	627.3	1207.7	2373.3	3220.7	3306.4	3077.5	2463.8	1342.3
77.5°	73.6	79.5	132.5	284.6	399.2	1172.7	2000.7	2097.4	1838.6	925.9	429.6
80°	58.3	65.0	103.3	140.6	107.9	378.2	937.2	996.3	613.2	206.6	72.4
82.5°	32.5	38.6	80.6	75.9	41.4	71.9	262.4	296.6	122.7	41.7	17.1
85°	9.5	11.5	51.9	55.2	17.6	13.8	44.8	55.5	23.3	11.0	7.7
87.5°	0.0	0.0	25.1	21.2	5.1	2.0	4.1	4.6	4.6	4.6	5.1
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°	1098.3	1098.3	1098.3	1098.3	1098.3	1098.3	1098.3	1098.3	1098.3	1098.3	1098.3
2.5°	1102.6	1104.4	1098.0	1089.6	1080.7	1069.7	1058.2	1049.2	1048.9	1044.6	1040.3
5°	1116.2	1115.2	1097.5	1070.7	1039.0	1006.0	974.5	939.0	927.2	912.7	907.8
7.5°	1141.3	1134.1	1096.8	1038.0	968.4	899.4	828.0	756.2	725.5	697.8	693.0
10°	1172.7	1159.2	1091.9	988.9	861.3	733.9	626.2	528.6	485.6	452.6	451.1
12.5°	1205.4	1184.7	1078.4	914.7	720.9	541.9	417.8	321.7	285.9	262.9	264.9
15°	1239.7	1208.8	1049.2	814.7	561.0	367.7	256.7	200.2	185.9	180.0	181.6
17.5°	1274.7	1225.4	1008.5	694.3	403.3	237.3	177.7	161.9	161.9	163.1	163.7
20°	1305.2	1234.3	948.7	559.3	273.4	172.9	155.5	153.2	154.5	156.5	156.8
22.5°	1335.4	1234.9	870.7	422.4	191.3	151.4	148.1	147.0	147.8	150.1	150.4
25°	1359.9	1228.7	773.0	300.5	152.7	142.7	141.2	140.6	141.2	144.0	144.0
27.5°	1369.9	1206.5	653.9	211.2	136.8	133.0	132.5	133.0	133.7	135.8	136.0
30°	1370.9	1167.6	524.0	152.9	124.0	119.9	121.0	122.7	122.0	121.5	122.0
32.5°	1373.5	1122.6	397.4	125.8	113.3	106.9	105.6	105.6	102.5	100.8	99.7
35°	1381.9	1069.7	288.2	113.0	102.3	94.9	90.0	84.4	78.5	75.4	74.7
37.5°	1395.2	1014.2	206.4	104.6	92.6	84.1	74.9	65.0	56.5	54.2	54.2
40°	1419.5	956.9	152.7	97.9	84.9	74.4	60.6	47.6	39.9	38.6	38.6
42.5°	1457.8	896.5	121.7	92.1	78.2	64.4	46.3	34.5	28.9	28.1	27.9
45°	1497.7	830.1	106.4	86.4	71.1	52.9	34.3	25.6	22.2	21.5	21.5
47.5°	1537.6	759.2	99.0	81.1	64.2	41.2	25.6	20.2	18.7	18.7	18.9
50°	1571.4	685.3	93.6	75.2	55.2	31.2	20.2	17.1	16.6	17.6	17.9
52.5°	1579.8	612.7	86.9	67.8	44.2	23.8	16.6	15.1	15.1	15.1	15.1
55°	1574.7	556.4	78.2	58.6	32.7	18.9	14.3	13.3	13.0	13.0	13.0
57.5°	1592.1	523.2	62.7	45.5	23.5	15.3	12.5	11.8	11.3	11.0	11.0
60°	1627.1	501.5	44.8	32.7	17.6	12.8	10.7	10.0	9.2	8.7	8.7
62.5°	1673.7	482.5	33.2	24.3	13.6	10.2	9.0	8.2	7.2	6.6	6.6
65°	1709.5	448.8	25.3	18.2	10.2	8.2	6.9	6.6	5.1	4.6	4.3
67.5°	1654.7	374.6	20.5	13.3	7.7	6.4	5.4	5.1	3.1	2.6	2.6
70°	1419.2	260.8	16.4	9.7	5.6	5.1	4.3	3.3	2.3	2.0	2.0
71°	1287.0	217.9	14.8	8.2	4.9	4.9	4.1	2.8	2.0	1.8	1.8
72.5°	1069.1	154.7	12.5	6.4	4.3	5.1	4.3	2.6	2.0	1.8	1.5
75°	620.6	64.7	8.7	4.3	3.3	6.1	5.6	2.3	1.5	1.3	1.3
77.5°	186.7	23.8	4.9	2.8	2.6	5.4	6.4	2.0	0.8	0.3	0.3
80°	34.0	10.2	3.1	1.8	1.8	3.3	4.9	1.0	0.0	0.0	0.0
82.5°	12.0	5.1	1.8	1.0	0.8	1.5	2.3	0.0	0.0	0.0	0.0
85°	6.9	3.6	1.0	0.5	0.0	0.3	0.5	0.0	0.0	0.0	0.0
87.5°	4.6	1.0	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)