

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: P321625

Luminaire Tested: **GAN-SA1A-750-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321625
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-SA1A-750-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5000K, 615mA 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: 3753 lumens
Efficiency: N/A
Efficacy: 110.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

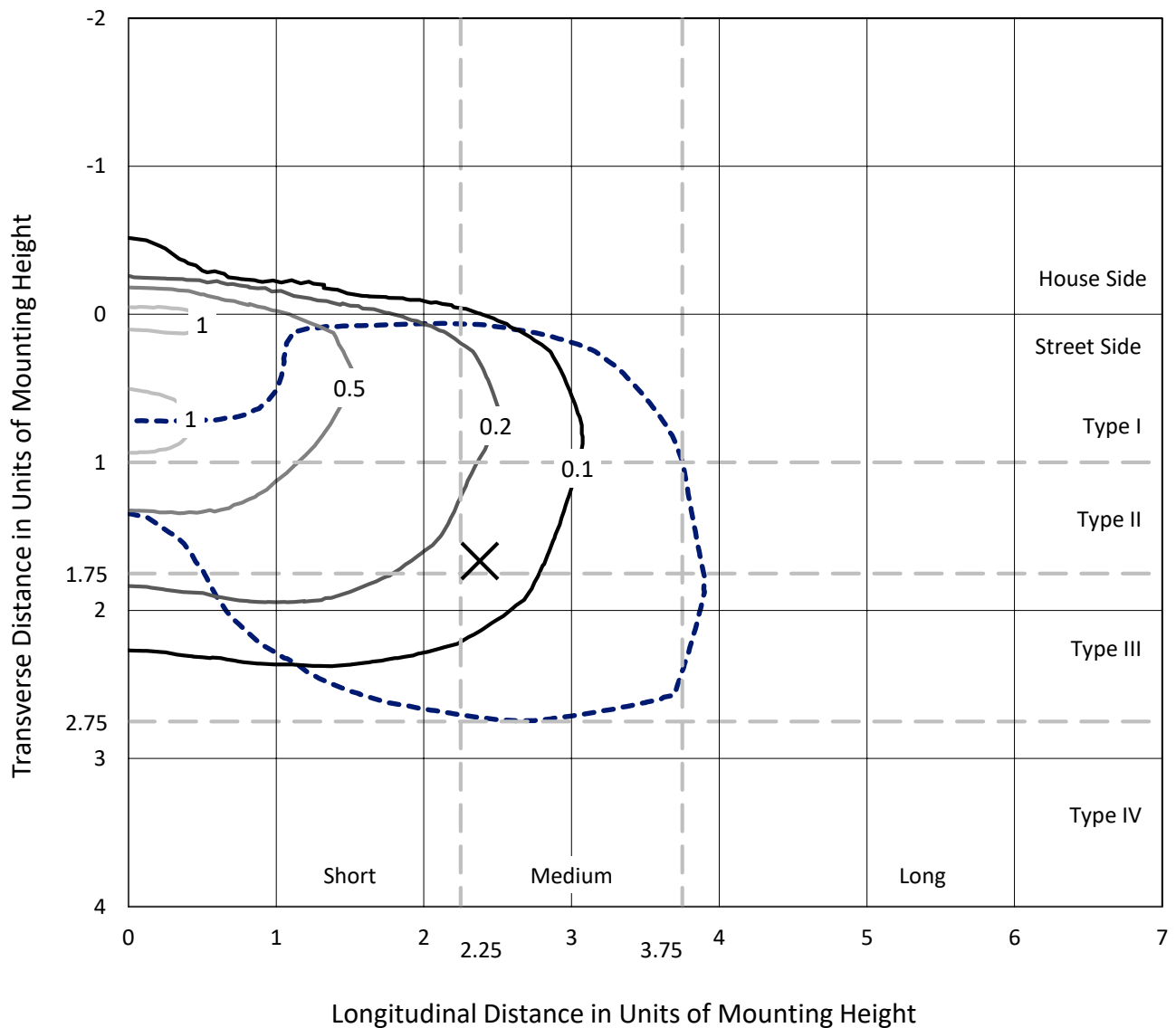
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

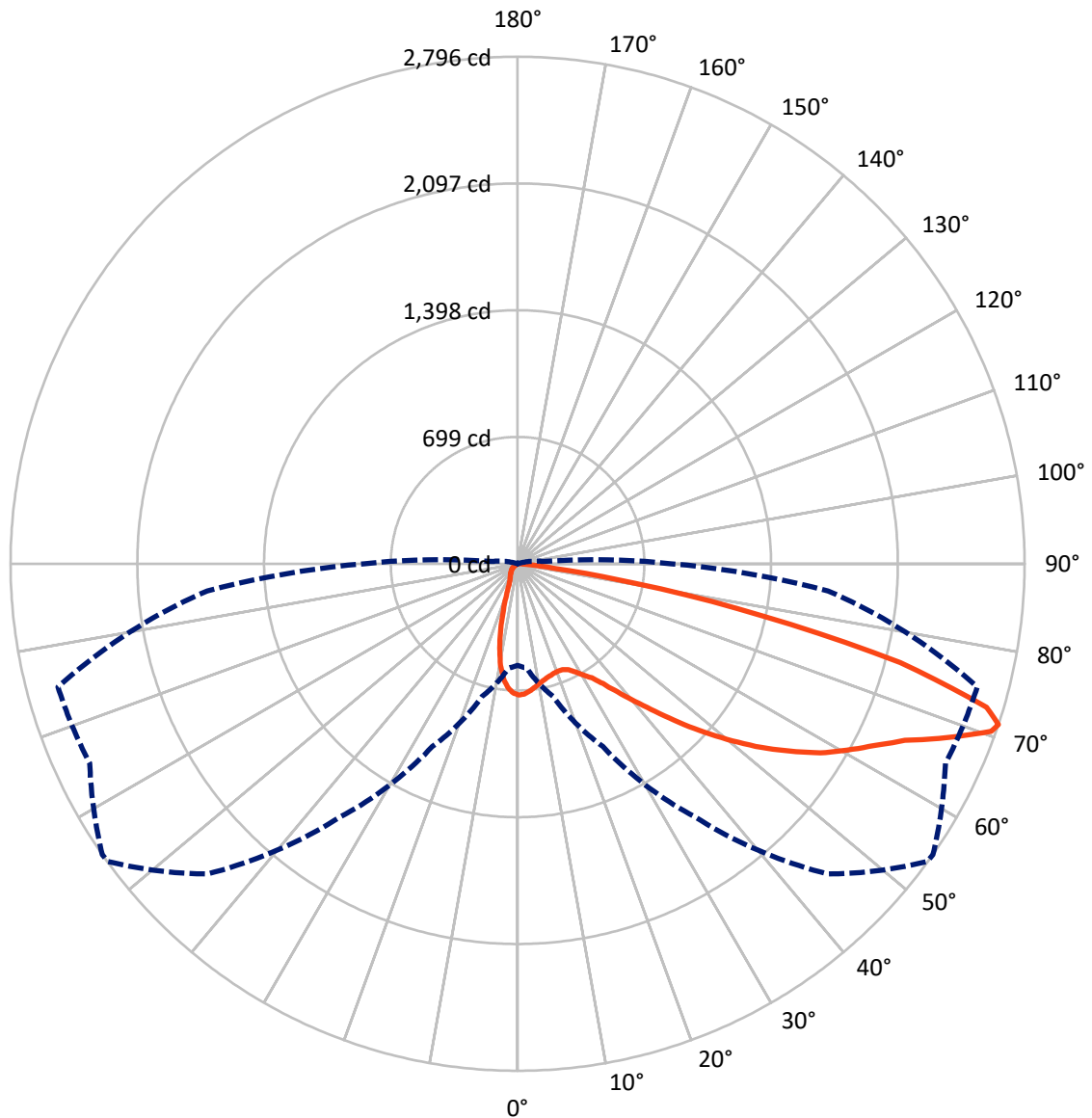
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 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	297.1	0.0	297.1
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	3455.9	0.0	3455.9
	% Fixture	92.1	0.0	92.1
Total	Lumens	3753.0	0.0	3753.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.7	1.6
10°-20°	139.3	3.7
20°-30°	223.9	6.0
30°-40°	380.4	10.1
40°-50°	590.4	15.7
50°-60°	793.8	21.2
60°-70°	971.1	25.9
70°-80°	567.8	15.1
80°-90°	24.5	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°	3753.0	100.0
0°-180°	3753.0	100.0

Coefficient of Utilization



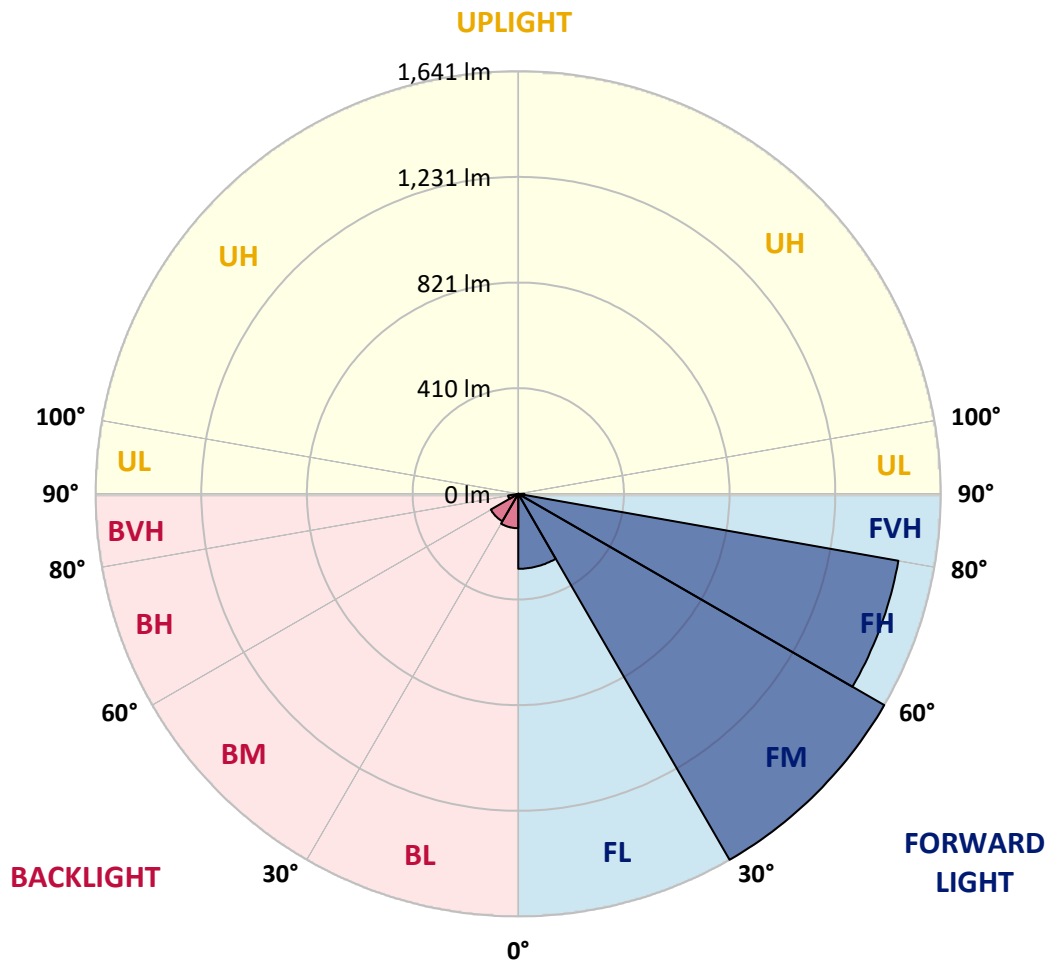
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	291.2	7.8			
FM (30°-60°)	1641.5	43.7			
FH (60°-80°)	1499.1	39.9			G1/1800
FVH (80°-90°)	24.2	0.6			G1/100
BL (0°-30°)	133.7	3.6	B1/500		
BM (30°-60°)	123.2	3.3	B0/220		
BH (60°-80°)	39.8	1.1	B0/110		G0/110
BVH (80°-90°)	0.4	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-G1

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	723.8	723.8	723.8	723.8	723.8	723.8	723.8	723.8	723.8	723.8	723.8
2.5°	702.5	703.4	706.4	707.8	711.0	716.4	719.1	719.2	723.6	725.3	726.6
5°	652.8	657.9	662.9	668.3	678.1	691.1	703.9	705.1	719.2	729.7	735.2
7.5°	610.0	614.6	620.6	629.2	643.1	663.5	684.9	687.4	714.2	737.9	750.4
10°	566.0	569.8	578.5	591.2	610.2	637.5	666.3	670.5	709.6	749.1	771.0
12.5°	519.0	521.2	531.8	550.0	578.0	612.7	650.6	656.2	706.8	761.9	795.2
15°	483.3	484.3	494.4	513.3	545.3	590.5	638.5	645.3	707.4	777.2	821.7
17.5°	474.2	474.7	480.1	493.1	521.4	570.6	628.9	637.2	709.5	792.2	848.3
20°	511.1	507.6	502.0	500.0	512.1	558.6	623.2	632.4	712.2	805.5	872.2
22.5°	612.4	601.9	578.9	548.0	529.3	559.5	624.7	634.0	720.7	821.9	899.9
25°	762.7	748.2	709.0	648.3	590.0	583.7	637.3	646.8	737.4	841.4	926.3
27.5°	933.8	919.4	871.4	784.8	685.4	631.8	666.3	675.1	762.2	858.8	946.6
30°	1097.5	1093.5	1036.9	938.5	805.3	709.6	703.7	711.1	780.6	869.2	962.6
32.5°	1236.4	1230.0	1184.5	1088.8	942.7	803.2	747.7	749.9	794.4	882.7	983.5
35°	1365.2	1357.2	1317.3	1226.8	1083.6	917.4	815.5	812.3	824.6	909.8	1013.8
37.5°	1477.6	1484.8	1440.5	1354.4	1210.0	1036.2	906.8	897.2	871.7	954.0	1057.8
40°	1571.6	1571.6	1548.5	1476.7	1346.4	1159.1	1010.1	997.5	942.7	1022.1	1113.6
42.5°	1605.5	1612.7	1621.3	1580.7	1468.6	1286.8	1125.2	1112.0	1042.6	1118.6	1184.0
45°	1607.5	1618.9	1662.9	1662.8	1579.0	1413.7	1254.9	1248.7	1170.7	1242.6	1271.3
47.5°	1579.0	1593.3	1665.8	1706.9	1666.5	1531.8	1396.8	1389.1	1321.2	1394.6	1362.6
50°	1535.0	1550.9	1635.1	1724.3	1725.9	1634.6	1546.3	1534.7	1486.8	1568.4	1457.0
52.5°	1456.3	1487.0	1607.6	1728.3	1765.0	1723.4	1688.5	1683.5	1672.2	1735.7	1532.2
55°	1288.0	1322.0	1538.7	1729.7	1801.3	1802.1	1821.8	1823.2	1845.9	1892.1	1588.1
57.5°	1208.4	1227.6	1418.4	1736.1	1855.0	1891.4	1957.7	1968.1	2003.3	2040.6	1652.0
60°	1158.4	1181.1	1359.1	1727.3	1939.5	2008.6	2083.5	2087.1	2124.8	2193.8	1738.4
62.5°	1118.4	1140.9	1321.7	1693.6	2034.3	2149.4	2206.6	2206.9	2235.2	2376.3	1836.7
65°	1019.9	1038.7	1246.0	1655.7	2097.0	2288.8	2349.5	2347.3	2370.4	2568.7	1950.8
67.5°	877.3	891.8	1091.5	1511.9	2073.4	2415.5	2565.2	2557.9	2529.9	2735.0	1995.6
70°	678.3	683.5	860.3	1260.0	1852.3	2464.2	2773.6	2769.9	2627.9	2705.2	1831.3
71°	560.7	577.8	758.2	1112.0	1704.2	2419.2	2793.8	2796.0	2603.2	2624.0	1718.2
72.5°	325.6	340.2	549.5	854.0	1446.9	2231.5	2689.0	2704.9	2488.3	2386.7	1467.6
75°	69.8	74.7	203.7	413.4	795.9	1564.0	2122.5	2178.9	2028.1	1623.7	884.5
77.5°	48.5	52.4	87.3	187.6	263.1	772.8	1318.5	1382.2	1211.6	610.2	283.1
80°	38.4	42.8	68.1	92.7	71.1	249.2	617.6	656.5	404.1	136.2	47.7
82.5°	21.4	25.4	53.1	50.0	27.3	47.4	172.9	195.5	80.9	27.5	11.3
85°	6.2	7.6	34.2	36.4	11.6	9.1	29.5	36.6	15.3	7.2	5.1
87.5°	0.0	0.0	16.5	14.0	3.4	1.3	2.7	3.0	3.0	3.0	3.4
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°	723.8	723.8	723.8	723.8	723.8	723.8	723.8	723.8	723.8	723.8	723.8
2.5°	726.6	727.8	723.6	718.0	712.2	704.9	697.3	691.4	691.3	688.4	685.5
5°	735.6	734.9	723.3	705.6	684.7	662.9	642.2	618.8	611.0	601.4	598.2
7.5°	752.1	747.4	722.8	684.0	638.2	592.7	545.7	498.3	478.1	459.9	456.7
10°	772.8	763.9	719.6	651.7	567.6	483.6	412.7	348.3	320.0	298.3	297.3
12.5°	794.4	780.7	710.6	602.8	475.0	357.1	275.4	212.0	188.4	173.2	174.6
15°	817.0	796.6	691.4	536.9	369.7	242.3	169.2	131.9	122.5	118.6	119.6
17.5°	840.1	807.5	664.6	457.5	265.8	156.4	117.1	106.7	106.7	107.5	107.9
20°	860.1	813.4	625.2	368.5	180.1	113.9	102.5	100.9	101.8	103.1	103.3
22.5°	880.0	813.8	573.8	278.4	126.1	99.8	97.6	96.9	97.4	98.9	99.1
25°	896.2	809.7	509.4	198.0	100.6	94.0	93.0	92.7	93.0	94.9	94.9
27.5°	902.7	795.1	430.9	139.2	90.2	87.6	87.3	87.6	88.1	89.5	89.7
30°	903.4	769.4	345.3	100.8	81.7	79.0	79.7	80.9	80.4	80.0	80.4
32.5°	905.1	739.8	261.9	82.9	74.7	70.4	69.6	69.6	67.6	66.4	65.7
35°	910.7	704.9	189.9	74.5	67.4	62.5	59.3	55.6	51.7	49.7	49.2
37.5°	919.4	668.3	136.0	68.9	61.0	55.4	49.4	42.8	37.2	35.7	35.7
40°	935.4	630.6	100.6	64.5	55.9	49.0	39.9	31.3	26.3	25.4	25.4
42.5°	960.7	590.8	80.2	60.7	51.6	42.5	30.5	22.7	19.0	18.5	18.4
45°	987.0	547.0	70.1	57.0	46.8	34.9	22.6	16.9	14.7	14.2	14.2
47.5°	1013.3	500.3	65.2	53.4	42.3	27.1	16.9	13.3	12.3	12.3	12.5
50°	1035.5	451.6	61.7	49.5	36.4	20.6	13.3	11.3	11.0	11.6	11.8
52.5°	1041.1	403.8	57.3	44.7	29.2	15.7	11.0	9.9	9.9	9.9	9.9
55°	1037.7	366.7	51.6	38.6	21.6	12.5	9.4	8.8	8.6	8.6	8.6
57.5°	1049.2	344.8	41.3	30.0	15.5	10.1	8.3	7.8	7.4	7.2	7.2
60°	1072.3	330.5	29.5	21.6	11.6	8.4	7.1	6.6	6.1	5.7	5.7
62.5°	1102.9	318.0	21.9	16.0	8.9	6.7	5.9	5.4	4.7	4.4	4.4
65°	1126.5	295.7	16.7	12.0	6.7	5.4	4.5	4.4	3.4	3.0	2.9
67.5°	1090.5	246.9	13.5	8.8	5.1	4.2	3.5	3.4	2.0	1.7	1.7
70°	935.3	171.9	10.8	6.4	3.7	3.4	2.9	2.2	1.5	1.3	1.3
71°	848.1	143.6	9.8	5.4	3.2	3.2	2.7	1.9	1.3	1.2	1.2
72.5°	704.6	102.0	8.3	4.2	2.9	3.4	2.9	1.7	1.3	1.2	1.0
75°	409.0	42.6	5.7	2.9	2.2	4.0	3.7	1.5	1.0	0.8	0.8
77.5°	123.0	15.7	3.2	1.9	1.7	3.5	4.2	1.3	0.5	0.2	0.2
80°	22.4	6.7	2.0	1.2	1.2	2.2	3.2	0.7	0.0	0.0	0.0
82.5°	7.9	3.4	1.2	0.7	0.5	1.0	1.5	0.0	0.0	0.0	0.0
85°	4.5	2.4	0.7	0.3	0.0	0.2	0.3	0.0	0.0	0.0	0.0
87.5°	3.0	0.7	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)