

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: P324745

Luminaire Tested: **GAN-SA1A-730-U-AFL-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P324745  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-30)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA1A-730-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3636 lumens  
Efficiency: N/A  
Efficacy: 106.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B0 - U0 - G0

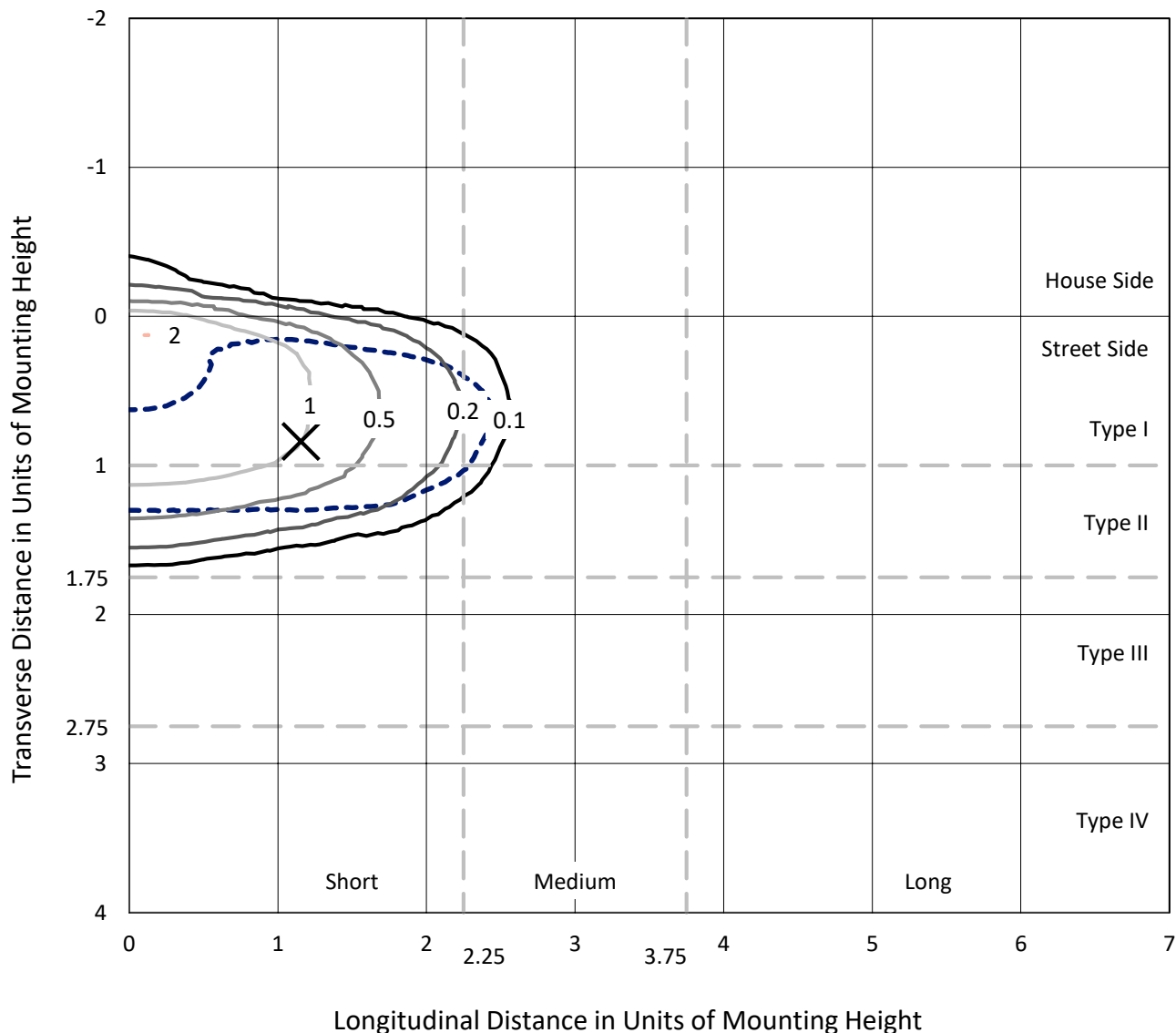
Input Watts (W): 34  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

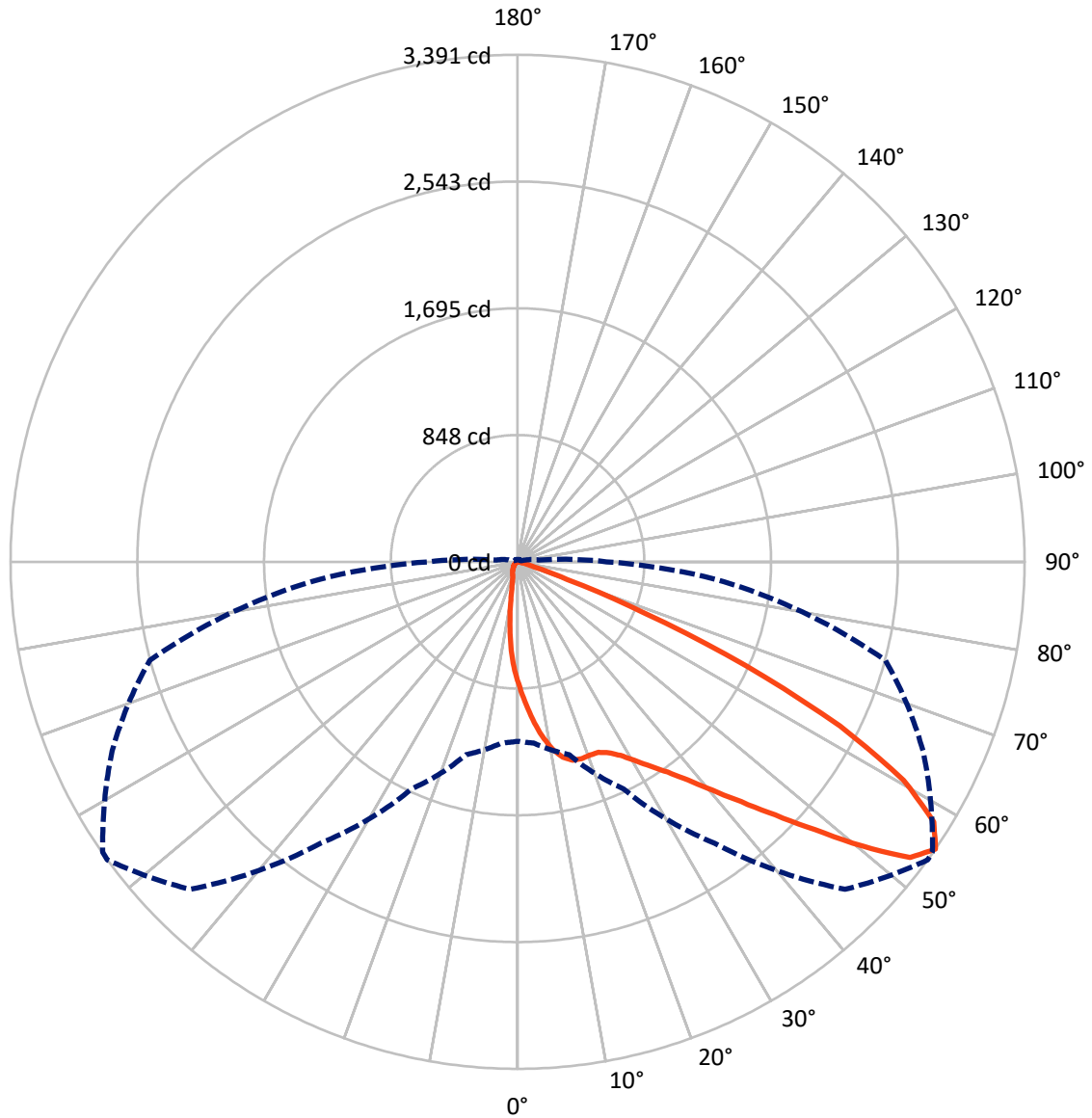
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral    - - - Horizontal Cone Through 55-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	181.4	0.0	181.4
	% Fixture	5.0	0.0	5.0
<b>Street Side</b>	Lumens	3454.6	0.0	3454.6
	% Fixture	95.0	0.0	95.0
<b>Total</b>	Lumens	3636.0	0.0	3636.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	75.0	2.1
10°-20°	205.7	5.7
20°-30°	351.1	9.7
30°-40°	563.5	15.5
40°-50°	900.5	24.8
50°-60°	964.9	26.5
60°-70°	495.4	13.6
70°-80°	75.0	2.1
80°-90°	4.9	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°	3636.0	100.0
0°-180°	3636.0	100.0

**Coefficient of Utilization**

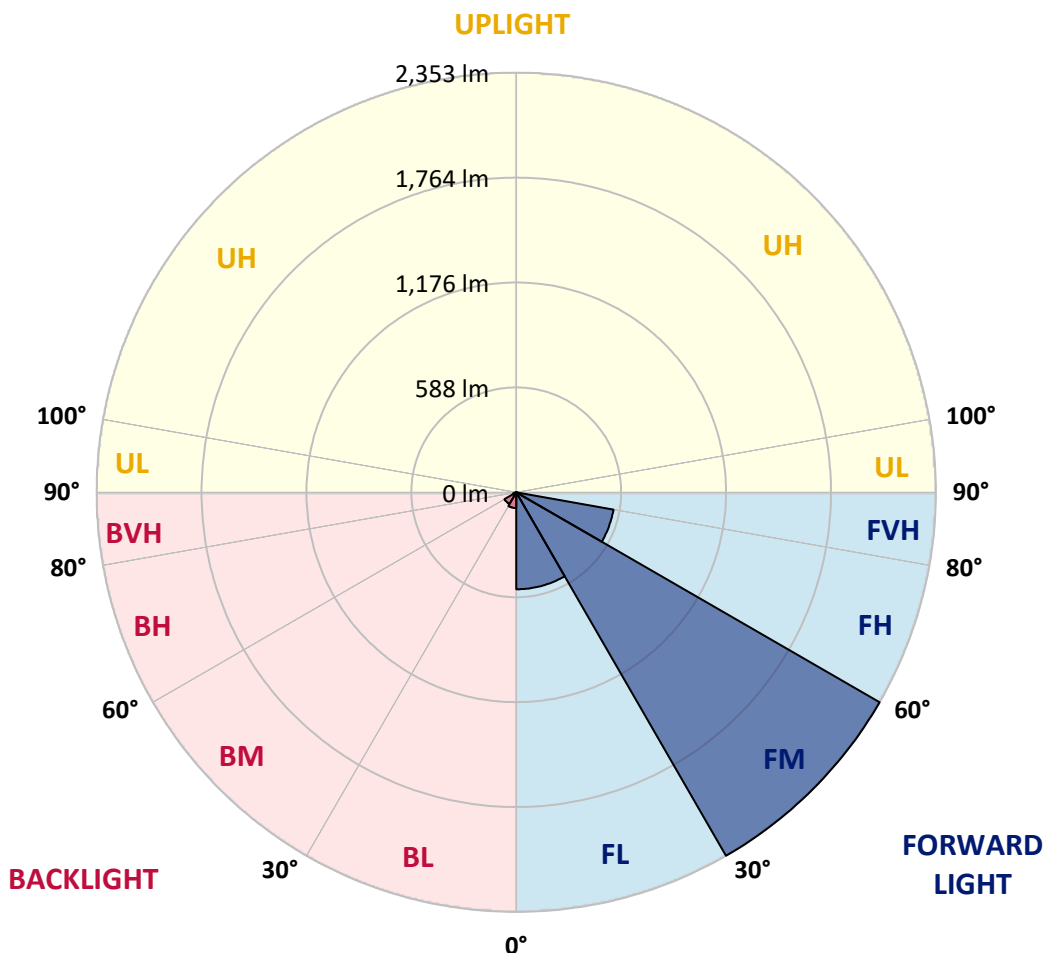


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	543.5	14.9			
FM (30°-60°)	2352.6	64.7			
FH (60°-80°)	553.7	15.2			G0/660
FVH (80°-90°)	4.7	0.1			G0/10
BL (0°-30°)	88.3	2.4	B0/110		
BM (30°-60°)	76.2	2.1	B0/220		
BH (60°-80°)	16.7	0.5	B0/110		G0/110
BVH (80°-90°)	0.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B0-U0-G0**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	814.3	814.3	814.3	814.3	814.3	814.3	814.3	814.3	814.3	814.3	814.3
2.5°	1021.9	1006.7	1007.1	1000.2	975.0	955.2	934.6	929.7	897.7	864.1	831.7
5°	1198.6	1187.4	1184.7	1171.4	1136.2	1099.0	1059.1	1049.9	987.2	918.4	850.7
7.5°	1289.3	1289.5	1287.3	1282.4	1260.4	1224.3	1175.6	1165.9	1080.6	977.5	870.5
10°	1262.9	1268.9	1281.1	1297.3	1314.1	1309.6	1273.0	1264.2	1171.5	1040.0	892.5
12.5°	1201.4	1202.2	1215.8	1242.4	1290.7	1340.3	1341.0	1338.0	1258.4	1105.3	916.7
15°	1170.8	1173.7	1178.8	1195.9	1241.7	1321.2	1378.0	1382.3	1338.0	1174.7	942.4
17.5°	1190.9	1195.1	1190.9	1192.9	1219.4	1290.9	1384.5	1395.3	1407.5	1243.3	966.8
20°	1245.3	1249.3	1241.7	1233.4	1238.6	1282.1	1379.9	1394.5	1462.0	1304.2	987.2
22.5°	1318.8	1320.4	1308.9	1295.3	1291.5	1311.9	1383.7	1398.8	1505.7	1359.3	1000.1
25°	1399.7	1401.1	1386.8	1371.1	1362.2	1370.5	1414.6	1425.9	1544.2	1411.9	1007.5
27.5°	1487.8	1489.0	1471.1	1451.8	1441.5	1441.8	1465.6	1477.7	1585.1	1471.9	1013.4
30°	1580.9	1580.3	1563.8	1536.9	1523.7	1523.4	1539.1	1551.4	1644.5	1548.9	1021.6
32.5°	1685.5	1684.2	1660.8	1627.5	1612.6	1614.8	1628.8	1635.9	1718.1	1630.8	1036.2
35°	1823.2	1819.6	1784.2	1742.9	1715.5	1714.7	1726.5	1732.1	1812.0	1730.1	1060.5
37.5°	2001.9	1998.6	1950.7	1890.7	1852.1	1837.6	1851.6	1858.8	1946.0	1857.4	1099.6
40°	2178.1	2174.8	2146.3	2091.4	2031.9	1997.2	2008.2	2015.9	2113.2	2011.9	1148.9
42.5°	2299.6	2302.4	2312.3	2316.9	2261.1	2188.3	2193.3	2201.3	2288.9	2177.1	1205.3
45°	2331.6	2337.7	2393.6	2503.4	2524.3	2467.4	2414.8	2419.2	2467.4	2342.3	1261.7
47.5°	2235.4	2246.7	2354.6	2558.7	2735.5	2775.7	2676.1	2670.3	2638.8	2475.9	1301.7
50°	2016.6	2027.0	2166.8	2468.7	2799.6	3069.9	2989.2	2972.1	2789.0	2555.9	1315.8
52.5°	1700.1	1712.6	1826.2	2185.4	2678.8	3201.2	3285.7	3271.4	2899.3	2562.1	1318.2
55°	1200.6	1215.8	1335.9	1675.0	2296.1	3096.8	3390.7	3386.5	2990.8	2545.5	1323.2
57.5°	674.7	685.7	815.3	1073.7	1681.7	2697.3	3281.0	3309.1	3046.1	2516.6	1330.8
60°	299.6	302.6	369.6	534.5	984.5	2061.4	2966.8	3014.2	2998.7	2478.0	1343.5
62.5°	166.1	163.6	163.6	222.2	427.9	1276.1	2419.2	2497.6	2796.3	2432.3	1344.1
65°	130.2	127.8	121.1	122.0	163.0	566.4	1675.3	1814.6	2411.9	2298.3	1298.9
67.5°	110.4	108.3	101.6	98.9	101.3	186.9	920.5	1065.1	1830.1	1950.2	1125.1
70°	93.3	91.9	88.4	85.1	79.1	92.3	352.2	450.5	1127.7	1297.3	768.0
72.5°	75.1	74.4	75.7	72.9	65.6	61.6	120.4	145.9	506.6	578.9	316.4
75°	64.7	64.4	65.0	62.2	54.0	42.9	61.2	66.9	142.9	141.6	64.1
77.5°	42.1	42.6	53.9	52.6	46.5	28.6	31.7	34.2	43.3	32.5	19.5
80°	26.9	26.5	27.3	43.7	41.8	21.8	15.9	16.6	20.9	16.0	9.4
82.5°	16.3	16.0	17.9	20.4	21.0	15.2	9.7	9.9	13.0	10.4	5.0
85°	1.4	1.9	10.8	10.0	7.2	4.7	4.7	5.0	6.9	6.1	2.8
87.5°	0.0	0.0	1.9	2.8	1.6	1.7	1.7	1.9	2.7	2.7	1.4
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°	814.3	814.3	814.3	814.3	814.3	814.3	814.3	814.3	814.3	814.3	814.3
2.5°	814.9	798.6	765.6	733.9	707.1	681.2	651.6	622.4	608.8	603.3	597.6
5°	816.4	782.8	714.8	646.3	575.3	511.4	456.9	401.0	373.1	360.8	355.2
7.5°	818.2	767.1	657.1	542.2	427.9	341.2	265.5	216.8	195.8	192.5	184.3
10°	818.6	748.1	590.2	427.3	286.9	205.7	158.3	133.2	123.9	122.3	119.7
12.5°	819.2	725.6	516.0	316.4	191.3	137.6	114.5	106.1	103.6	103.5	103.5
15°	821.1	702.0	438.9	228.0	137.4	109.0	100.5	97.2	96.3	96.7	96.6
17.5°	821.1	674.3	363.2	169.9	111.0	98.0	93.3	91.1	90.8	91.2	91.4
20°	815.1	640.5	293.8	132.2	98.5	90.9	86.7	84.6	83.8	84.2	84.3
22.5°	800.8	599.0	237.3	109.4	90.1	84.5	79.9	76.8	75.5	75.7	75.7
25°	778.5	549.9	185.6	94.7	83.4	77.6	72.2	68.6	67.8	67.7	68.0
27.5°	749.9	495.6	147.8	83.4	75.4	69.9	64.5	61.6	60.9	61.1	61.2
30°	721.8	439.2	116.5	73.8	66.4	61.2	57.2	55.7	55.7	56.2	56.4
32.5°	696.1	385.0	92.2	65.5	58.4	53.7	51.3	51.2	52.0	52.3	52.4
35°	673.9	334.9	76.3	59.0	52.1	48.0	47.3	47.9	48.8	49.5	49.6
37.5°	658.2	290.2	66.7	53.7	47.3	44.0	43.8	45.1	46.3	47.7	48.0
40°	651.6	252.3	60.1	49.0	43.3	40.8	40.4	42.1	44.4	46.5	46.8
42.5°	646.1	221.4	54.5	44.4	40.2	36.6	36.4	38.6	41.5	43.5	44.0
45°	641.4	196.6	49.3	39.6	36.1	31.4	31.9	34.7	36.9	39.1	39.6
47.5°	631.7	176.2	43.7	34.4	29.8	26.9	27.8	30.3	32.0	35.3	35.8
50°	614.3	159.5	37.8	28.1	24.3	23.2	24.7	26.4	28.6	31.4	31.7
52.5°	602.5	147.0	32.8	23.6	20.1	20.4	21.8	22.5	23.7	24.8	24.5
55°	595.7	140.1	28.7	20.4	17.1	18.1	18.4	17.6	17.0	15.9	15.4
57.5°	595.0	133.8	25.6	17.7	15.1	15.5	14.4	11.8	9.6	8.3	8.0
60°	593.7	126.1	23.1	14.9	13.3	12.7	10.4	6.4	4.6	4.2	4.2
62.5°	580.0	114.2	21.2	12.6	11.3	9.6	6.0	3.0	2.5	2.7	2.7
65°	536.5	97.5	19.3	10.2	9.0	6.9	3.0	1.7	0.9	1.1	1.1
67.5°	456.2	77.7	17.3	7.9	6.8	4.4	1.7	0.8	0.0	0.0	0.0
70°	305.4	48.2	14.6	5.5	4.4	2.7	1.3	0.2	0.0	0.0	0.0
72.5°	117.1	26.1	11.8	3.3	2.8	1.9	0.8	0.0	0.0	0.0	0.0
75°	26.4	17.1	8.2	2.4	2.0	1.3	0.3	0.0	0.0	0.0	0.0
77.5°	10.0	12.4	4.7	1.6	1.4	0.8	0.0	0.0	0.0	0.0	0.0
80°	4.9	7.4	2.2	0.9	0.8	0.3	0.0	0.0	0.0	0.0	0.0
82.5°	2.5	2.8	0.9	0.5	0.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	1.4	1.4	0.5	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.8	0.5	0.2	0.2	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)