

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: P321305

Luminaire Tested: **GAN-SA1A-750-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321305
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-9)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1A-750-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5000K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3939 lumens
Efficiency: N/A
Efficacy: 115.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B0 - U0 - G1

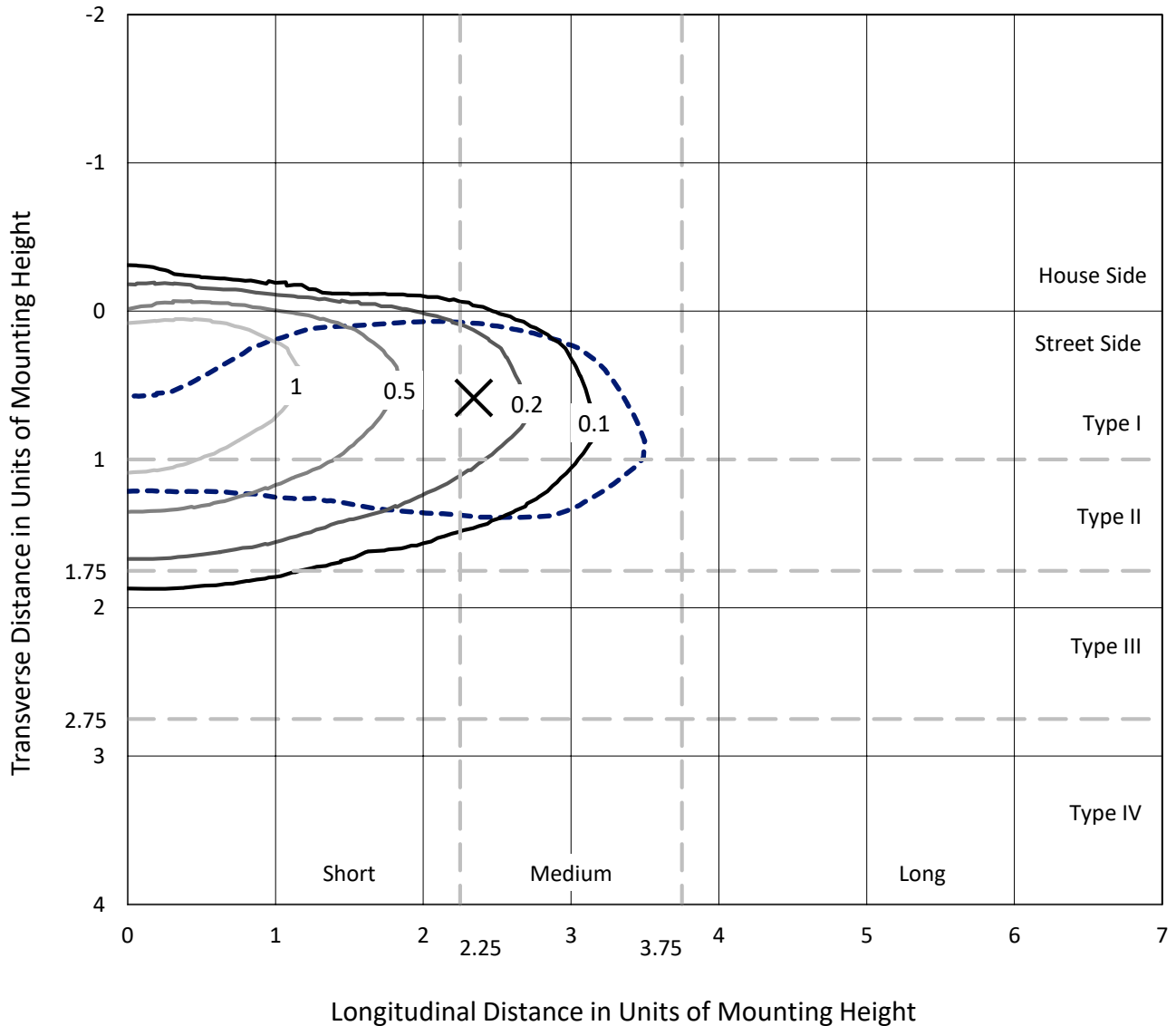
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

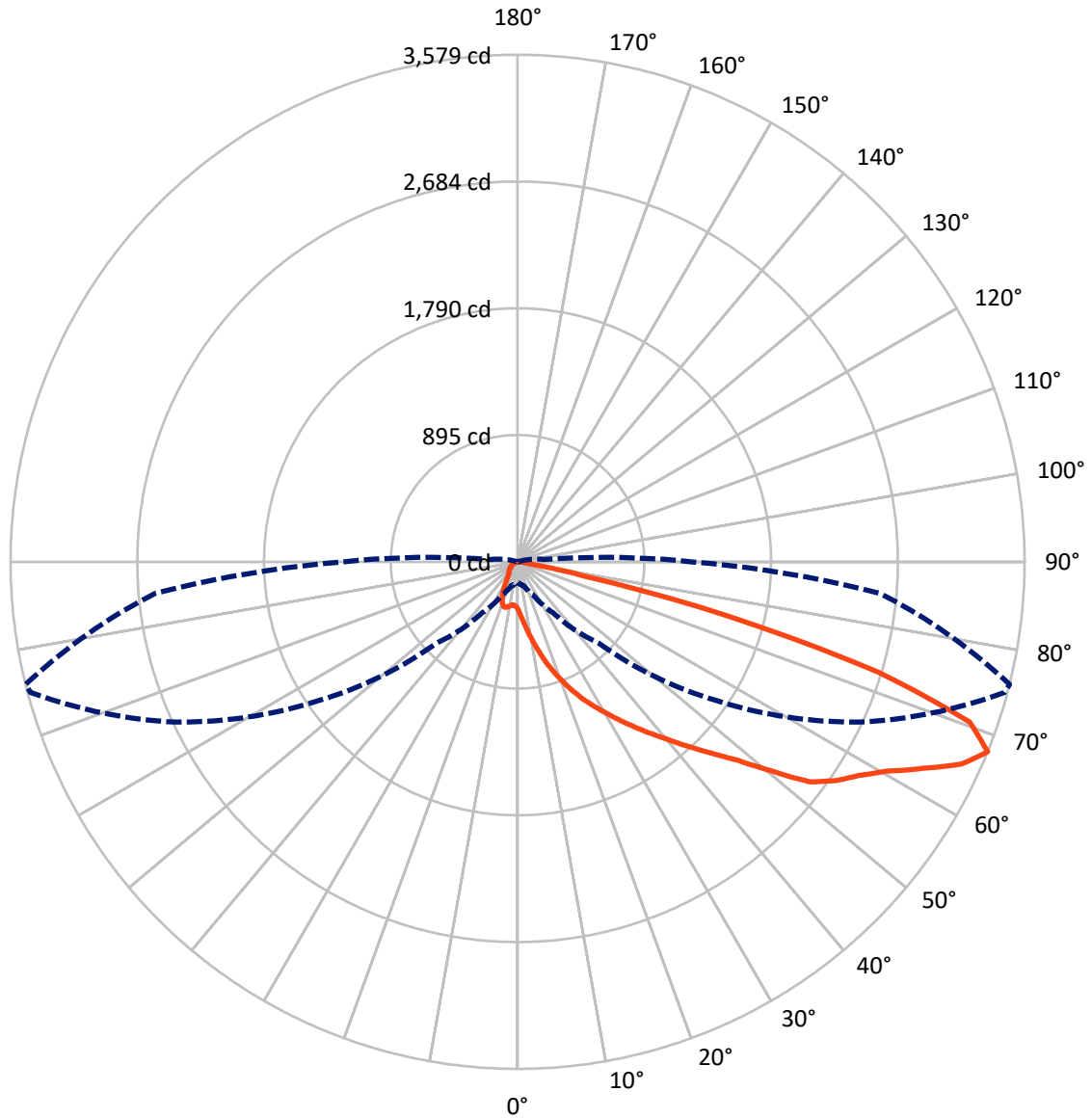
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	195.6	0.0	195.6
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	3743.4	0.0	3743.4
	% Fixture	95.0	0.0	95.0
Total	Lumens	3939.0	0.0	3939.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.5	1.1
10°-20°	164.7	4.2
20°-30°	335.1	8.5
30°-40°	581.7	14.8
40°-50°	821.8	20.9
50°-60°	932.0	23.7
60°-70°	773.0	19.6
70°-80°	280.0	7.1
80°-90°	9.1	0.2
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°	3939.0	100.0
0°-180°	3939.0	100.0

Coefficient of Utilization

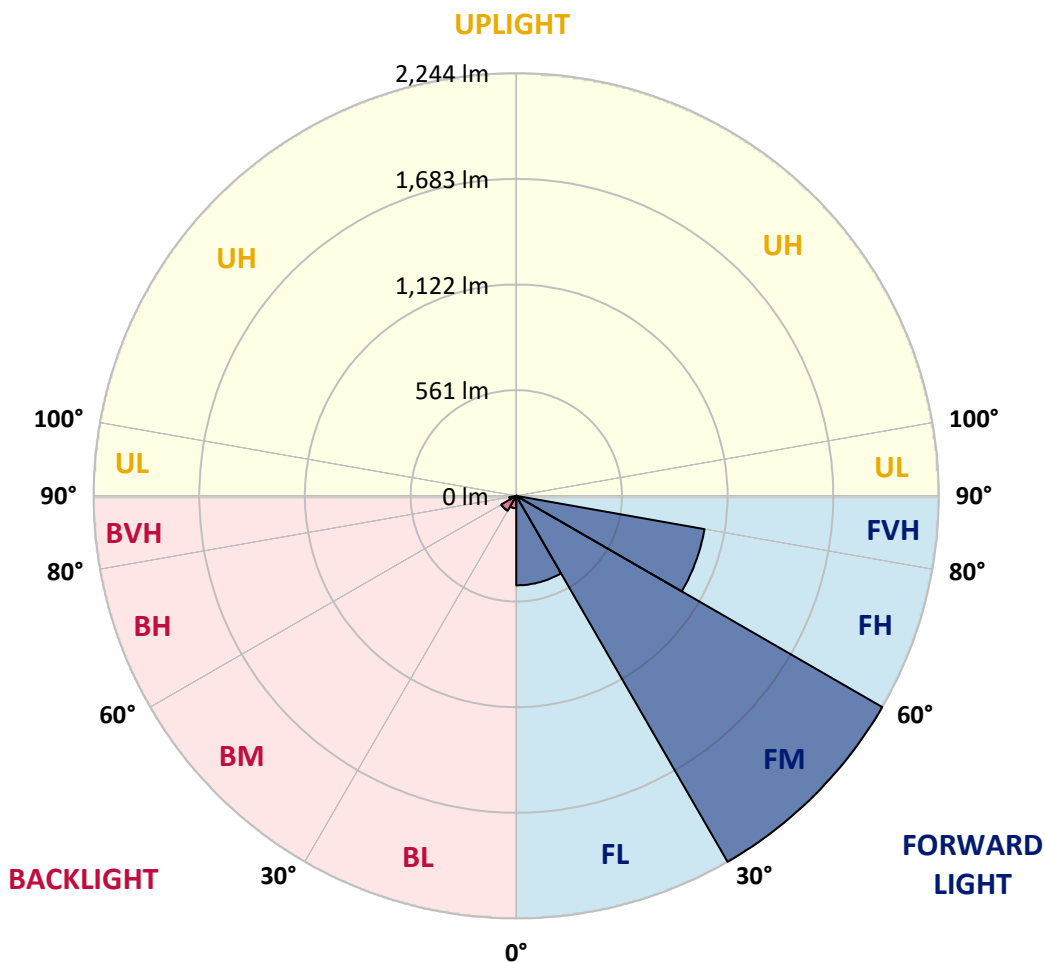


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	475.4	12.1			
FM (30°-60°)	2244.0	57.0			
FH (60°-80°)	1015.2	25.8			G1/1800
FVH (80°-90°)	8.8	0.2			G0/10
BL (0°-30°)	66.0	1.7	B0/110		
BM (30°-60°)	91.5	2.3	B0/220		
BH (60°-80°)	37.8	1.0	B0/110		G0/110
BVH (80°-90°)	0.3	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 II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	334.1	334.1	334.1	334.1	334.1	334.1	334.1	334.1	334.1	334.1	334.1
2.5°	498.8	487.6	490.2	482.9	469.8	442.9	419.9	398.2	372.8	371.9	351.1
5°	672.6	663.1	661.9	647.2	623.4	577.7	533.1	482.4	425.8	421.6	377.3
7.5°	830.3	822.8	820.0	802.6	758.2	713.7	655.7	581.1	492.6	485.0	412.7
10°	951.5	947.9	948.6	936.1	898.2	856.8	780.6	685.5	568.4	556.6	455.1
12.5°	1043.3	1044.2	1050.4	1042.8	1021.6	990.9	909.6	796.9	652.2	636.2	503.6
15°	1110.8	1115.1	1126.5	1136.0	1134.5	1107.9	1033.3	909.9	741.3	723.5	557.7
17.5°	1154.5	1159.3	1175.9	1196.9	1216.3	1210.1	1152.8	1019.0	831.4	810.8	615.5
20°	1192.8	1198.5	1216.3	1244.1	1280.1	1287.9	1250.3	1124.8	921.3	896.3	675.2
22.5°	1275.8	1275.6	1286.5	1302.7	1337.1	1357.1	1333.3	1223.0	1010.2	984.1	736.1
25°	1426.0	1420.3	1416.5	1403.7	1411.3	1423.7	1410.4	1314.8	1099.6	1073.2	797.9
27.5°	1604.4	1607.9	1577.2	1542.8	1516.2	1503.5	1481.7	1399.9	1185.5	1156.5	858.3
30°	1792.7	1793.8	1757.5	1713.7	1655.2	1606.7	1569.0	1481.2	1273.9	1242.3	917.0
32.5°	1962.6	1955.8	1919.9	1860.2	1786.3	1731.8	1653.6	1572.0	1367.5	1336.9	982.2
35°	2097.2	2089.2	2045.6	1991.2	1914.6	1859.7	1765.6	1662.6	1465.8	1436.0	1047.6
37.5°	2195.6	2186.2	2141.4	2085.4	2019.3	1987.4	1895.6	1761.1	1573.2	1541.1	1116.5
40°	2229.7	2221.6	2193.5	2152.6	2099.4	2092.2	2033.5	1874.5	1690.0	1655.9	1194.5
42.5°	2209.4	2201.4	2191.4	2177.6	2155.5	2162.4	2163.6	2003.8	1819.8	1786.2	1280.6
45°	2128.6	2121.5	2131.9	2152.1	2179.5	2213.7	2282.4	2142.8	1964.8	1928.9	1380.2
47.5°	2009.7	2004.5	2033.2	2083.6	2163.8	2258.0	2390.9	2288.8	2127.6	2094.3	1504.5
50°	1840.5	1839.7	1897.0	1989.0	2112.4	2279.4	2503.1	2454.8	2353.7	2318.6	1677.3
52.5°	1577.2	1578.9	1691.6	1838.8	2022.1	2264.9	2575.3	2668.1	2616.7	2580.3	1826.9
55°	1326.4	1336.7	1416.6	1628.9	1883.7	2211.1	2600.1	2767.7	2761.8	2727.3	1910.1
57.5°	1080.8	1099.6	1176.6	1374.9	1681.6	2087.0	2586.5	2810.9	2869.9	2843.5	2019.9
60°	814.6	823.3	912.0	1097.4	1422.2	1860.6	2487.6	2834.3	3017.6	2999.3	2179.2
62.5°	518.3	539.9	618.6	797.4	1107.4	1546.1	2320.9	2834.0	3202.5	3212.5	2384.7
65°	273.0	298.2	340.0	494.1	761.0	1194.9	2070.1	2807.4	3429.3	3443.2	2545.4
67.5°	147.2	154.5	176.6	256.5	441.3	809.5	1701.6	2676.2	3560.6	3579.1	2567.8
70°	107.7	111.7	120.0	141.9	222.1	470.1	1241.6	2378.9	3391.3	3384.4	2281.5
72.5°	82.7	88.9	95.1	103.9	127.7	251.0	773.0	1862.8	2705.9	2660.4	1705.4
75°	65.2	66.3	75.1	83.0	95.8	142.9	343.3	1084.9	1651.5	1543.7	884.4
77.5°	52.1	52.8	58.0	64.9	77.0	93.9	106.3	426.8	527.3	470.5	191.9
80°	30.9	32.6	43.1	50.1	63.9	59.2	38.8	92.7	82.3	74.6	32.3
82.5°	17.3	18.6	24.3	39.5	44.5	28.3	19.3	25.0	19.3	18.8	9.1
85°	0.0	0.9	15.7	24.5	18.1	6.2	8.1	8.3	5.7	5.4	3.6
87.5°	0.0	0.0	4.8	4.7	0.7	1.0	1.9	2.8	2.2	2.2	1.9
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°	334.1	334.1	334.1	334.1	334.1	334.1	334.1	334.1	334.1	334.1	334.1
2.5°	340.7	331.4	313.8	296.5	282.0	270.1	259.4	255.1	251.6	251.1	248.4
5°	355.9	337.1	303.4	275.8	257.3	244.2	233.0	226.1	220.7	218.7	216.8
7.5°	378.8	350.4	302.0	270.3	248.2	226.1	205.4	182.9	169.0	163.6	160.5
10°	406.8	368.0	307.2	268.7	230.1	183.5	149.1	120.6	109.1	105.3	104.2
12.5°	439.4	389.9	316.2	259.1	191.4	130.3	102.9	93.2	90.6	89.4	89.4
15°	476.9	413.9	322.6	231.1	141.5	98.6	89.1	84.6	81.8	80.3	80.4
17.5°	515.2	437.4	319.5	190.5	104.4	87.7	80.6	75.8	72.0	70.4	70.1
20°	553.9	459.1	302.2	141.9	88.4	79.6	71.6	66.3	62.5	60.9	60.6
22.5°	593.9	477.6	271.8	104.1	79.4	70.6	62.8	57.5	53.8	52.5	51.8
25°	632.9	492.6	229.4	84.2	70.9	62.1	54.7	49.7	46.4	45.0	44.9
27.5°	669.3	502.1	180.2	74.4	63.5	54.5	47.8	43.3	40.6	39.5	39.4
30°	702.1	502.9	133.2	67.1	57.0	48.0	41.8	37.8	35.4	34.3	34.0
32.5°	735.2	495.7	97.0	60.6	50.9	42.3	36.2	33.1	31.4	30.5	30.5
35°	766.5	478.9	75.6	54.9	45.0	36.8	31.9	29.7	28.7	27.8	27.8
37.5°	797.0	455.0	64.2	49.9	39.5	32.1	28.1	26.8	25.9	25.0	25.0
40°	828.1	424.8	58.3	45.2	35.0	28.5	25.0	23.8	23.0	22.3	22.1
42.5°	866.2	389.9	54.5	40.9	31.1	25.2	22.1	20.7	20.0	19.3	19.0
45°	910.4	359.9	51.4	36.6	27.8	22.4	19.2	17.8	16.7	15.9	15.7
47.5°	974.1	338.1	47.3	31.9	24.7	19.5	16.6	15.0	13.5	12.6	12.4
50°	1055.4	320.2	41.9	27.8	21.6	16.6	13.8	11.9	10.5	9.7	9.7
52.5°	1095.8	296.7	37.1	24.2	18.1	14.0	11.2	9.0	8.3	7.4	7.4
55°	1112.0	278.7	32.3	20.5	15.0	11.6	8.8	6.9	6.4	5.9	5.7
57.5°	1157.6	273.6	28.1	17.4	12.4	9.1	6.7	5.2	4.8	4.1	4.1
60°	1230.9	276.1	24.3	14.8	10.0	7.1	5.0	4.0	3.6	2.9	2.9
62.5°	1310.2	272.9	20.5	12.8	7.8	5.2	3.5	2.9	2.9	1.7	1.6
65°	1325.3	243.0	17.6	10.5	6.0	3.8	2.2	1.9	2.6	0.3	0.0
67.5°	1230.1	188.5	15.2	8.1	4.5	2.9	1.7	0.9	2.2	0.0	0.0
70°	983.6	119.8	12.3	5.9	3.5	2.4	1.4	0.3	1.7	0.0	0.0
72.5°	695.6	69.6	9.7	4.1	2.9	1.9	1.0	0.0	1.0	0.0	0.0
75°	351.7	37.1	6.0	3.1	2.2	1.4	0.7	0.0	0.2	0.0	0.0
77.5°	76.1	17.3	3.8	2.2	1.6	0.9	0.3	0.0	0.0	0.0	0.0
80°	16.6	7.6	2.4	1.4	0.9	0.5	0.0	0.0	0.0	0.0	0.0
82.5°	6.0	4.0	1.2	0.7	0.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	3.3	2.1	0.7	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.7	0.7	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)