

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: P382730

Luminaire Tested: **GAN-SA1A-735-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382730
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1A-735-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3312.6 lumens
Efficiency: N/A
Efficacy: 97.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

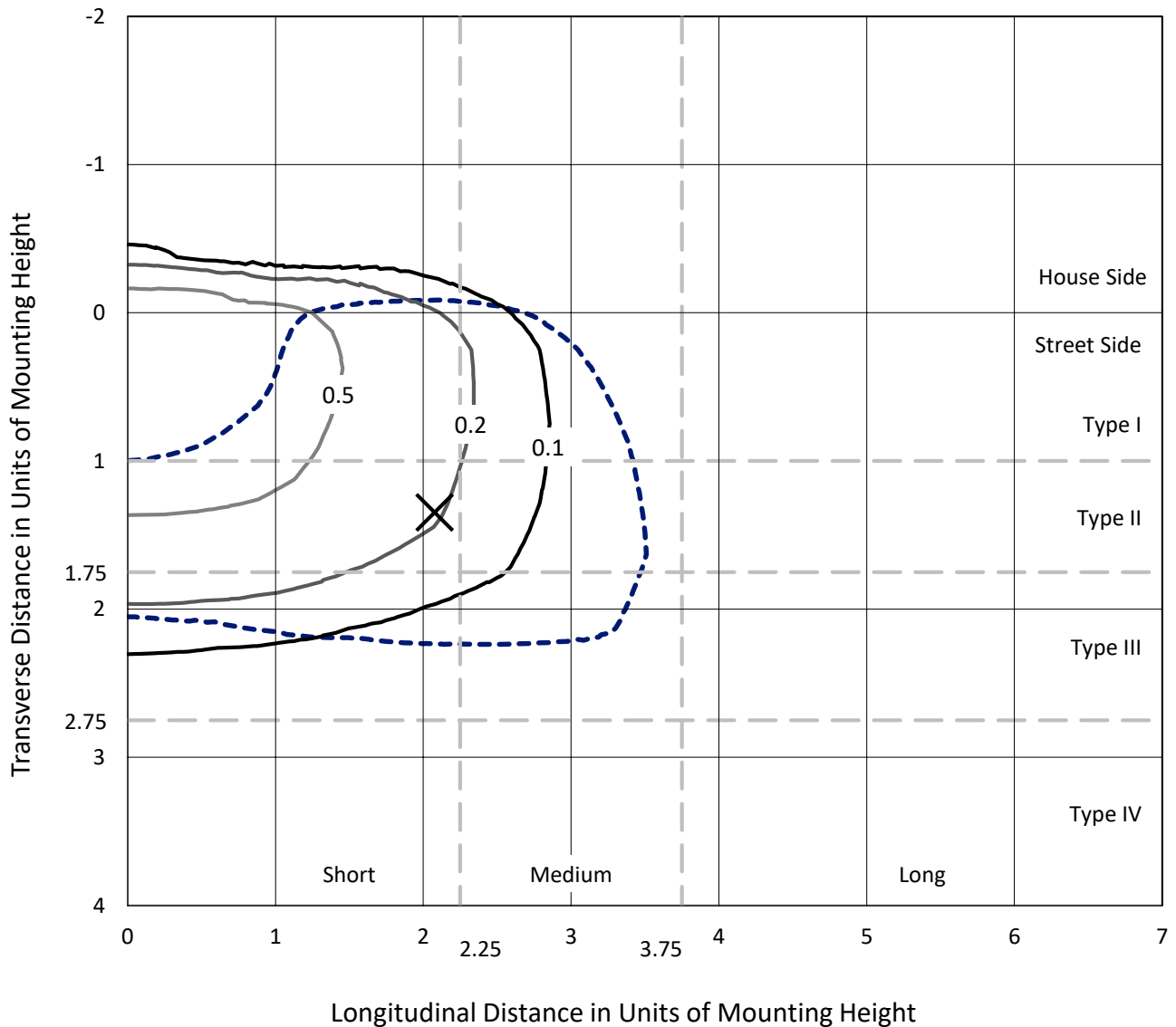
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

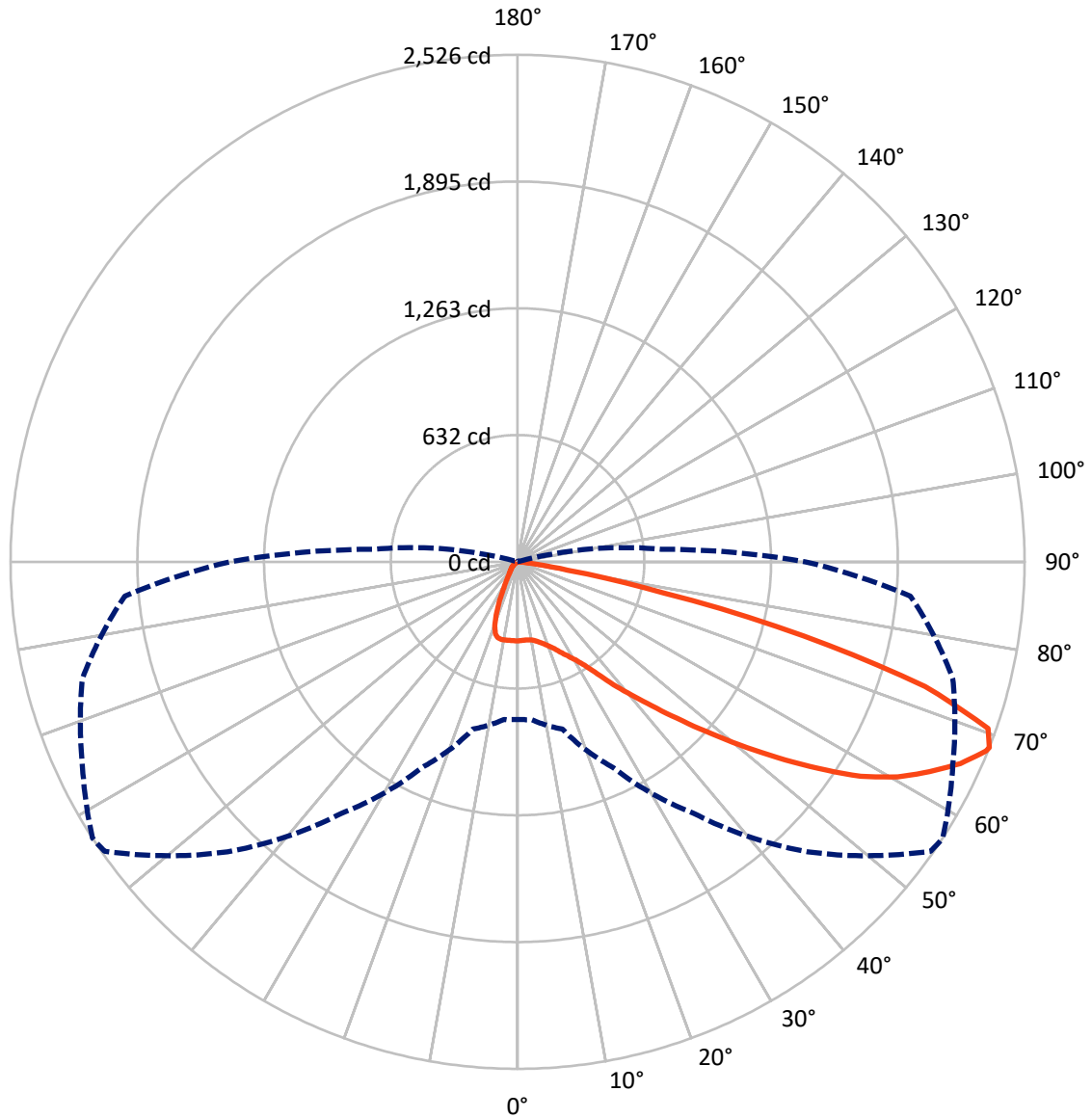
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	363.2	0.0	363.2
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	2949.3	0.0	2949.3
	% Fixture	89.0	0.0	89.0
Total	Lumens	3312.6	0.0	3312.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.8	1.1
10°-20°	102.1	3.1
20°-30°	176.1	5.3
30°-40°	303.9	9.2
40°-50°	519.9	15.7
50°-60°	831.8	25.1
60°-70°	961.0	29.0
70°-80°	367.2	11.1
80°-90°	13.8	0.4
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°	3312.6	100.0
0°-180°	3312.6	100.0

Coefficient of Utilization



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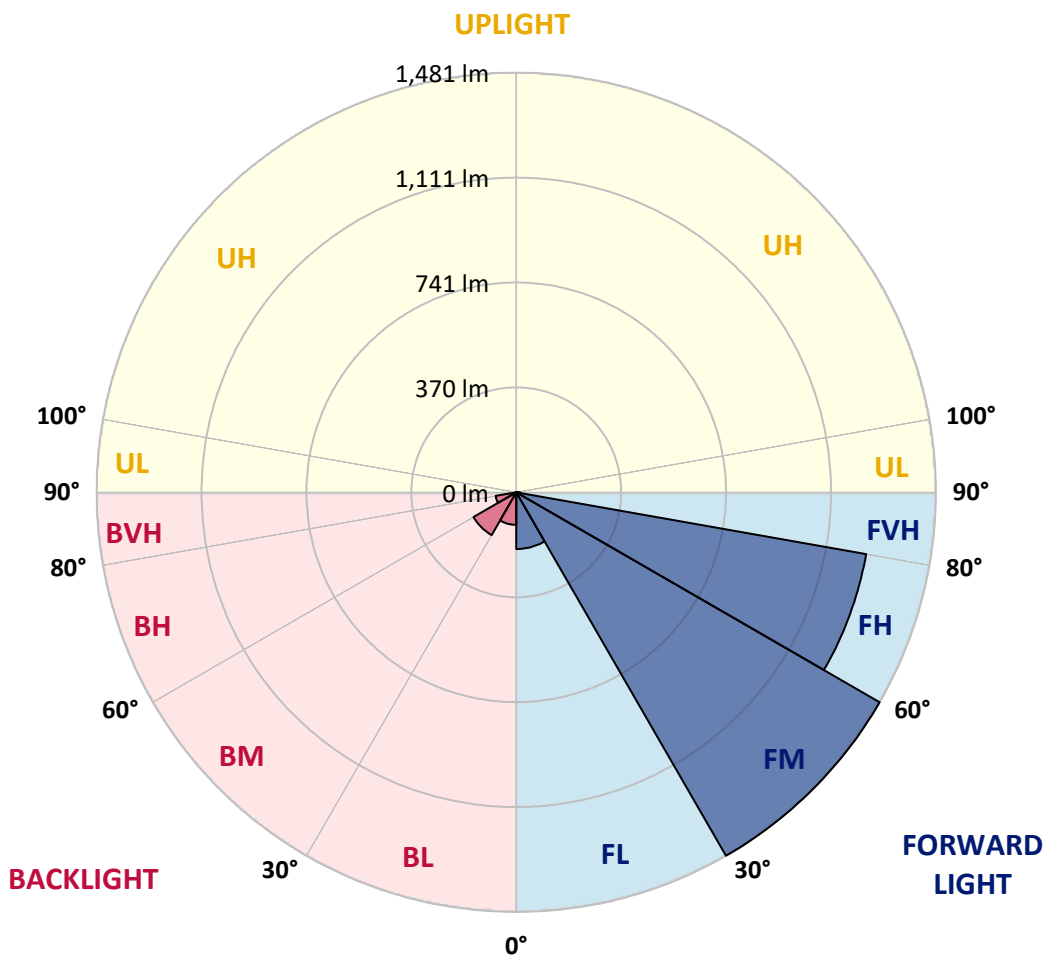
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	200.2	6.0			
FM (30°-60°)	1481.4	44.7			
FH (60°-80°)	1254.3	37.9			G1/1800
FVH (80°-90°)	13.5	0.4			G1/100
BL (0°-30°)	114.8	3.5	B1/500		
BM (30°-60°)	174.2	5.3	B0/220		
BH (60°-80°)	74.0	2.2	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: B1-U0-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	393.6	393.6	393.6	393.6	393.6	393.6	393.6	393.6	393.6	393.6	393.6
2.5°	384.4	386.1	387.3	388.2	389.1	391.2	391.7	392.6	393.1	393.1	394.2
5°	369.2	371.0	373.7	375.9	380.4	385.9	390.0	391.6	394.4	396.9	398.3
7.5°	355.1	357.2	360.4	365.5	373.1	382.2	390.7	392.8	398.3	403.6	406.3
10°	346.0	347.7	351.8	359.2	369.0	381.7	393.6	396.3	405.7	414.6	419.7
12.5°	342.9	344.4	348.7	357.0	369.2	384.1	400.5	404.4	418.2	431.2	438.3
15°	347.4	347.7	352.3	360.1	372.2	389.9	411.9	416.7	434.0	451.0	459.7
17.5°	365.0	363.6	365.9	369.4	378.9	397.6	424.0	431.0	454.2	474.2	482.4
20°	408.9	408.9	403.5	394.1	394.2	409.4	440.3	448.3	476.7	499.7	507.2
22.5°	483.8	482.4	471.8	448.7	427.6	430.0	460.2	470.5	503.6	528.2	530.7
25°	574.0	572.3	555.9	523.4	486.8	463.2	487.1	499.0	535.7	557.4	552.3
27.5°	669.6	668.2	651.9	611.7	559.5	516.1	519.2	530.5	568.4	589.9	573.5
30°	762.2	762.7	746.5	705.2	646.1	583.6	560.0	566.6	600.2	622.0	598.5
32.5°	850.2	850.9	836.9	790.7	735.5	662.1	616.3	614.6	637.2	658.6	631.7
35°	928.7	930.2	920.7	884.8	826.4	749.5	689.5	685.4	689.6	713.9	682.6
37.5°	1004.3	1005.2	998.1	967.9	919.0	845.5	781.9	776.2	767.0	785.7	749.8
40°	1087.2	1084.9	1076.6	1049.1	1007.2	951.6	881.2	871.2	855.3	872.0	838.1
42.5°	1164.2	1161.6	1163.0	1132.0	1096.6	1060.6	996.9	979.7	970.5	989.6	946.5
45°	1260.6	1259.2	1263.9	1236.9	1208.3	1182.1	1129.7	1110.9	1106.8	1129.2	1077.6
47.5°	1355.7	1359.1	1373.7	1362.3	1350.7	1327.6	1270.2	1261.7	1264.2	1291.3	1215.9
50°	1435.0	1439.0	1478.9	1492.1	1508.8	1495.4	1437.8	1432.5	1442.4	1466.9	1364.7
52.5°	1492.2	1500.5	1550.2	1610.8	1671.9	1681.0	1623.5	1618.8	1632.2	1635.9	1479.8
55°	1532.0	1539.4	1595.6	1706.5	1830.9	1870.1	1834.3	1816.1	1813.6	1776.6	1600.7
57.5°	1539.1	1538.3	1619.1	1768.4	1955.6	2056.6	2034.0	2016.2	1964.8	1906.6	1739.3
60°	1499.3	1503.9	1597.7	1789.9	2033.9	2197.7	2199.5	2176.3	2096.3	2032.9	1873.6
62.5°	1376.8	1395.3	1490.1	1733.6	2032.9	2254.6	2320.7	2303.0	2207.3	2136.5	2009.9
65°	1178.2	1184.7	1275.2	1541.0	1895.6	2230.8	2429.8	2423.3	2307.4	2237.0	2080.0
67.5°	860.4	846.1	941.0	1213.4	1604.9	2092.0	2508.2	2516.5	2384.6	2257.7	2005.4
68°	785.2	789.4	863.4	1132.5	1528.8	2043.0	2513.3	2526.1	2392.3	2244.3	1964.6
70°	468.0	476.2	542.1	779.7	1163.0	1765.6	2457.6	2486.6	2346.6	2105.3	1699.3
72.5°	119.5	129.2	191.5	349.0	664.3	1244.0	2074.6	2123.6	2037.4	1707.9	1147.2
75°	49.2	51.7	68.5	115.0	247.5	560.4	1367.4	1472.4	1412.4	1022.5	518.5
77.5°	34.0	35.7	44.0	63.7	107.1	190.0	670.4	746.2	672.3	349.0	113.1
80°	24.4	25.8	31.5	42.5	61.6	67.8	218.5	252.6	200.7	76.6	28.0
82.5°	14.5	15.6	23.5	30.3	37.4	32.4	54.3	61.7	58.1	38.1	12.6
85°	7.2	8.5	15.8	21.6	20.2	13.6	16.6	18.4	22.8	23.2	6.7
87.5°	0.5	0.9	9.2	13.0	5.7	3.2	4.8	6.0	8.1	11.5	2.8
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°	393.6	393.6	393.6	393.6	393.6	393.6	393.6	393.6	393.6	393.6	393.6
2.5°	394.7	394.9	393.8	393.3	393.6	391.7	391.0	391.2	391.2	391.7	391.0
5°	398.6	398.6	396.7	394.2	392.8	389.2	386.9	386.2	385.8	385.5	384.8
7.5°	407.1	406.2	402.9	397.4	392.6	384.8	378.9	375.8	374.2	373.6	373.1
10°	420.7	419.0	413.5	403.4	392.6	378.6	365.5	356.3	348.7	345.5	343.6
12.5°	439.0	436.5	427.3	410.3	391.4	365.7	337.6	310.5	285.2	274.9	269.7
15°	460.2	456.6	442.0	416.3	385.0	336.8	275.6	228.0	193.1	180.0	174.3
17.5°	481.6	477.0	454.9	420.1	365.7	276.8	193.3	146.0	122.7	116.4	114.2
20°	503.2	496.3	466.0	417.2	322.2	199.5	127.5	106.7	100.0	98.1	97.4
22.5°	523.8	513.1	476.0	406.3	255.2	134.0	100.9	94.3	92.1	91.0	90.7
25°	541.6	526.8	484.8	372.4	180.6	101.2	90.8	88.7	85.8	83.8	83.9
27.5°	558.4	540.4	490.1	316.7	120.4	86.4	84.1	81.1	75.9	73.0	73.0
30°	578.6	558.6	494.0	243.7	88.7	76.5	74.5	70.1	63.0	59.1	59.1
32.5°	609.0	586.1	491.5	171.0	73.5	67.2	62.8	56.5	48.9	45.1	45.0
35°	655.5	628.7	473.7	112.2	64.8	58.4	51.4	43.7	37.0	33.8	33.7
37.5°	718.1	685.7	433.5	80.2	58.1	50.3	41.8	33.3	28.3	26.3	26.2
40°	799.5	752.0	376.3	65.0	51.9	42.5	32.2	25.8	22.4	20.9	21.0
42.5°	897.1	822.9	307.5	56.1	45.7	34.9	25.2	20.4	18.2	17.0	16.8
45°	1005.4	893.0	235.4	49.9	39.6	28.2	19.7	16.1	14.4	13.8	13.8
47.5°	1124.7	961.1	172.3	44.6	33.1	21.8	15.8	13.1	11.7	11.3	11.1
50°	1232.9	1008.4	124.2	39.0	27.1	17.2	12.9	11.0	10.1	9.4	9.4
52.5°	1323.1	1023.3	91.5	32.9	21.9	13.8	10.6	9.4	8.5	8.0	8.0
55°	1402.5	1017.2	68.0	27.1	17.7	11.3	9.1	8.0	7.2	6.7	6.7
57.5°	1478.6	997.4	50.8	22.1	14.3	9.1	7.6	6.7	6.0	5.7	5.7
60°	1540.8	964.5	37.7	17.9	11.5	7.4	6.4	5.5	4.8	4.4	4.4
62.5°	1591.3	928.2	27.8	14.7	9.1	5.8	5.0	4.6	3.6	3.2	3.2
65°	1591.5	867.9	20.9	12.2	7.1	4.6	3.7	3.6	2.3	1.9	1.7
67.5°	1476.4	748.2	16.0	10.5	5.5	3.4	2.8	3.0	1.2	0.7	0.7
68°	1434.6	717.9	15.0	10.3	5.1	3.3	2.7	3.0	1.1	0.7	0.5
70°	1209.5	571.1	12.0	10.1	4.6	2.5	2.2	3.0	0.9	0.5	0.3
72.5°	773.7	331.4	8.9	8.0	3.4	1.9	1.4	2.7	0.9	0.3	0.2
75°	329.2	102.7	6.1	5.7	2.0	1.4	0.9	1.7	0.7	0.2	0.0
77.5°	69.4	23.2	3.6	3.4	1.4	0.9	0.7	0.5	0.2	0.0	0.0
80°	17.9	6.7	1.9	1.7	0.7	0.5	0.3	0.0	0.0	0.0	0.0
82.5°	5.7	2.7	1.1	0.7	0.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.8	1.6	0.7	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.6	0.5	0.2	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)