

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: P324755

Luminaire Tested: **GAN-SA1B-730-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324755
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-SA1B-730-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 800mA 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: 4461 lumens
Efficiency: N/A
Efficacy: 101.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G1

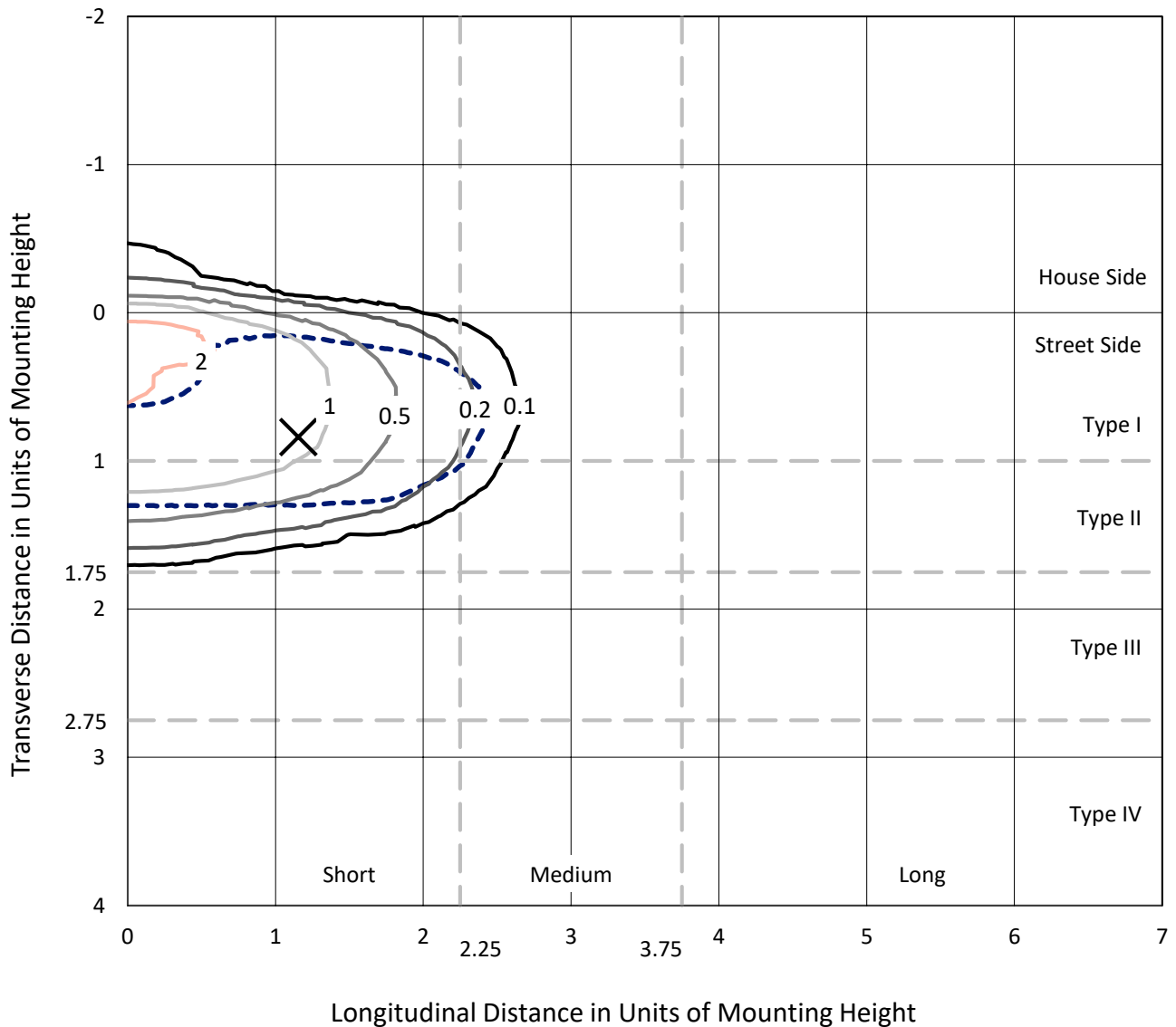
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

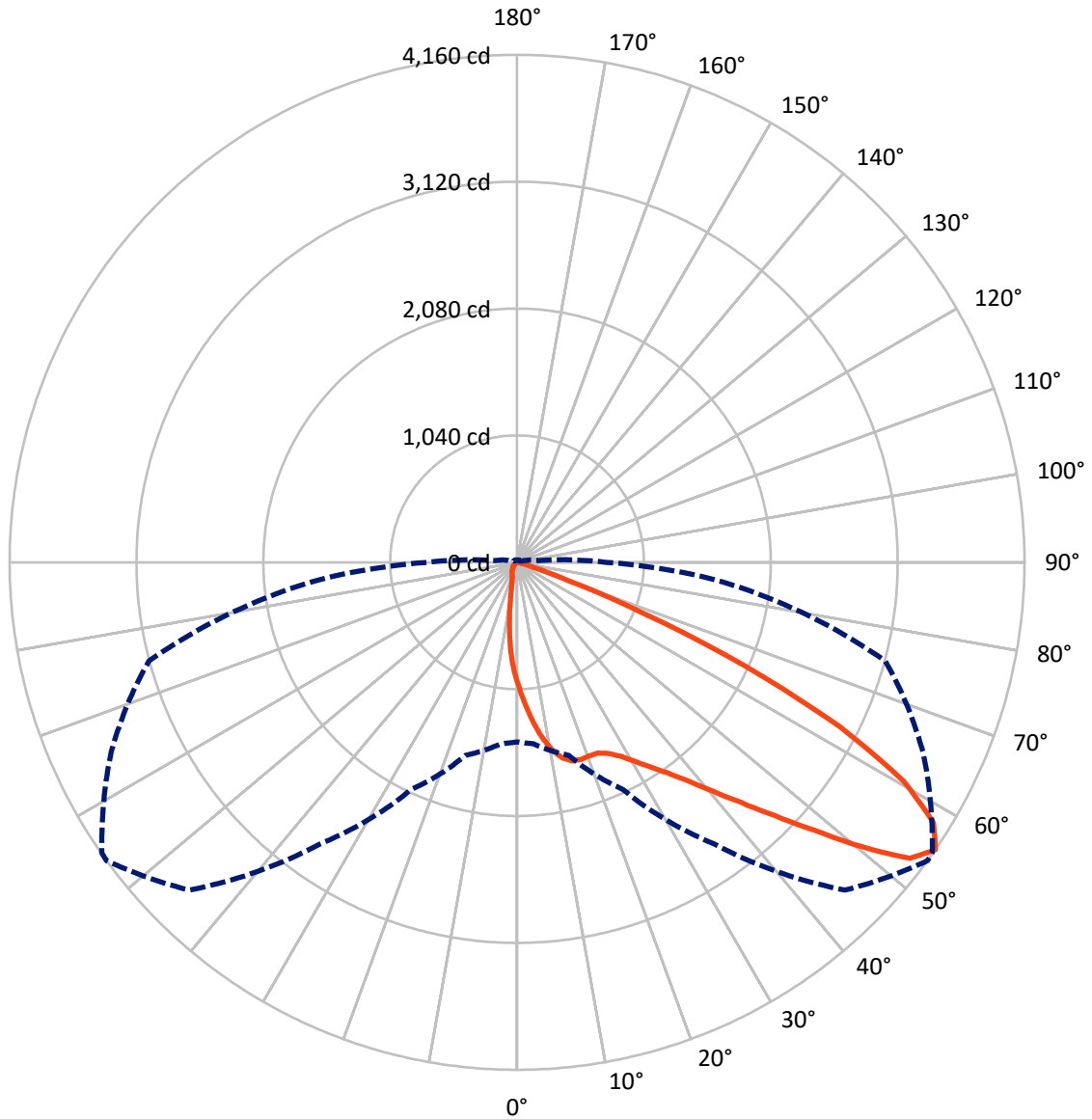
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 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
House Side	Lumens	222.6	0.0	222.6
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	4238.4	0.0	4238.4
	% Fixture	95.0	0.0	95.0
Total	Lumens	4461.0	0.0	4461.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.0	2.1
10°-20°	252.3	5.7
20°-30°	430.8	9.7
30°-40°	691.4	15.5
40°-50°	1104.8	24.8
50°-60°	1183.8	26.5
60°-70°	607.8	13.6
70°-80°	92.1	2.1
80°-90°	6.0	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°	4461.0	100.0
0°-180°	4461.0	100.0

Coefficient of Utilization



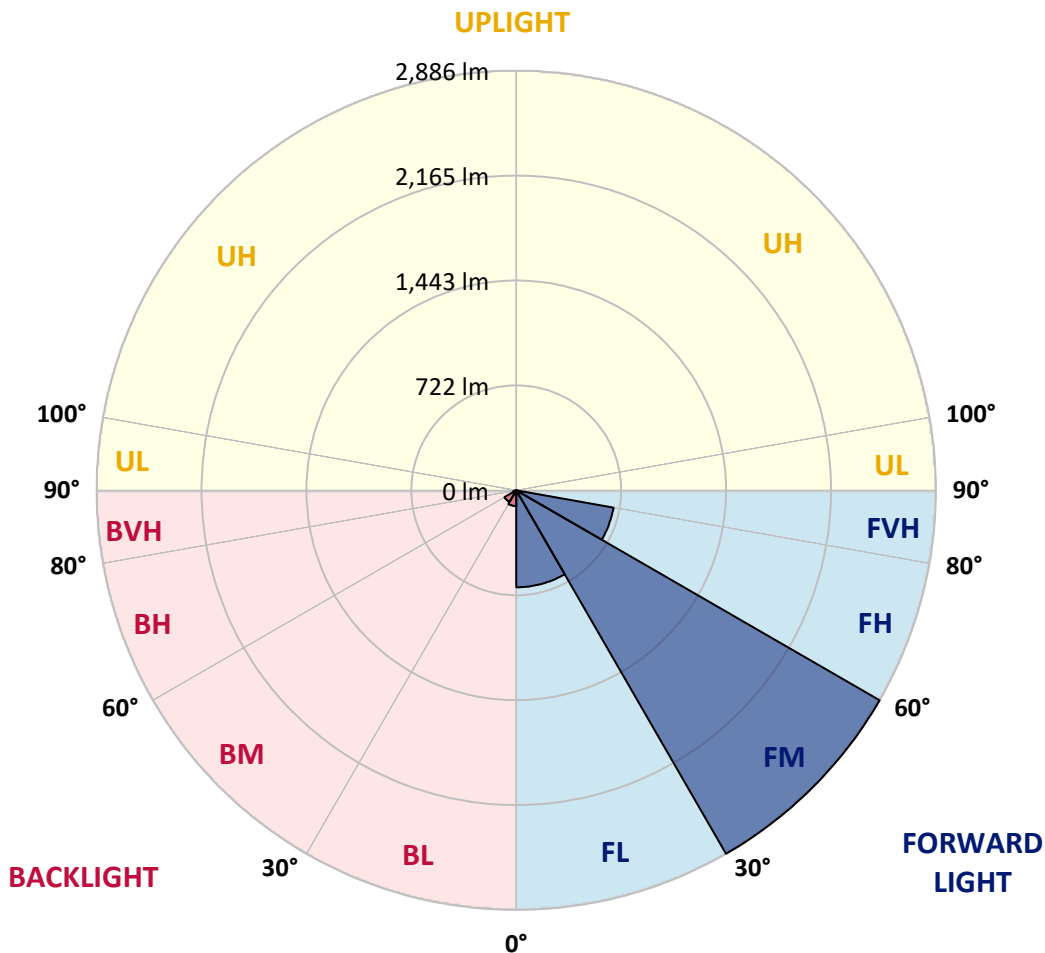
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	666.8	14.9			
FM (30°-60°)	2886.5	64.7			
FH (60°-80°)	679.4	15.2			G1/1800
FVH (80°-90°)	5.8	0.1			G0/10
BL (0°-30°)	108.3	2.4	B0/110		
BM (30°-60°)	93.5	2.1	B0/220		
BH (60°-80°)	20.5	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-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	999.1	999.1	999.1	999.1	999.1	999.1	999.1	999.1	999.1	999.1	999.1
2.5°	1253.8	1235.1	1235.7	1227.2	1196.2	1171.9	1146.7	1140.7	1101.4	1060.2	1020.5
5°	1470.5	1456.8	1453.5	1437.2	1394.0	1348.4	1299.4	1288.1	1211.2	1126.8	1043.8
7.5°	1581.9	1582.0	1579.3	1573.4	1546.4	1502.1	1442.4	1430.4	1325.8	1199.2	1068.1
10°	1549.5	1556.8	1571.8	1591.7	1612.3	1606.7	1561.8	1551.0	1437.4	1275.9	1095.0
12.5°	1474.0	1474.9	1491.7	1524.2	1583.6	1644.5	1645.2	1641.6	1543.9	1356.1	1124.7
15°	1436.4	1440.1	1446.2	1467.2	1523.5	1621.0	1690.7	1695.9	1641.6	1441.2	1156.3
17.5°	1461.1	1466.3	1461.1	1463.6	1496.1	1583.8	1698.6	1711.9	1726.9	1525.4	1186.1
20°	1527.9	1532.7	1523.5	1513.3	1519.6	1573.0	1693.0	1710.9	1793.8	1600.2	1211.2
22.5°	1618.1	1620.0	1605.9	1589.2	1584.5	1609.6	1697.6	1716.1	1847.3	1667.8	1227.0
25°	1717.3	1719.0	1701.5	1682.2	1671.2	1681.5	1735.6	1749.5	1894.5	1732.3	1236.0
27.5°	1825.4	1826.9	1804.9	1781.2	1768.5	1768.9	1798.2	1813.0	1944.8	1805.9	1243.4
30°	1939.6	1938.8	1918.6	1885.7	1869.5	1869.1	1888.4	1903.4	2017.6	1900.3	1253.4
32.5°	2067.9	2066.4	2037.7	1996.8	1978.5	1981.2	1998.4	2007.0	2108.0	2000.9	1271.3
35°	2236.9	2232.4	2189.1	2138.4	2104.7	2103.7	2118.2	2125.1	2223.2	2122.6	1301.2
37.5°	2456.1	2452.1	2393.3	2319.7	2272.3	2254.6	2271.7	2280.6	2387.5	2278.9	1349.1
40°	2672.3	2668.2	2633.3	2565.9	2492.9	2450.3	2463.8	2473.2	2592.7	2468.4	1409.6
42.5°	2821.4	2824.8	2837.0	2842.6	2774.2	2684.8	2690.9	2700.8	2808.3	2671.1	1478.8
45°	2860.7	2868.2	2936.8	3071.4	3097.0	3027.3	2962.8	2968.2	3027.3	2873.8	1547.9
47.5°	2742.6	2756.4	2888.8	3139.2	3356.2	3405.5	3283.3	3276.2	3237.5	3037.7	1597.1
50°	2474.2	2486.9	2658.4	3028.8	3434.8	3766.5	3667.5	3646.5	3421.9	3135.8	1614.4
52.5°	2085.8	2101.2	2240.5	2681.3	3286.6	3927.6	4031.2	4013.7	3557.1	3143.5	1617.3
55°	1473.0	1491.7	1639.1	2055.0	2817.1	3799.5	4160.1	4154.9	3669.4	3123.1	1623.5
57.5°	827.8	841.3	1000.2	1317.3	2063.3	3309.3	4025.4	4059.9	3737.2	3087.6	1632.7
60°	367.6	371.2	453.5	655.8	1207.9	2529.1	3639.9	3698.1	3679.0	3040.2	1648.3
62.5°	203.8	200.7	200.7	272.6	525.0	1565.7	2968.2	3064.3	3430.7	2984.2	1649.1
65°	159.7	156.8	148.5	149.7	200.0	694.9	2055.4	2226.3	2959.1	2819.8	1593.6
67.5°	135.4	132.9	124.6	121.4	124.3	229.3	1129.3	1306.7	2245.3	2392.7	1380.3
70°	114.4	112.7	108.5	104.4	97.1	113.3	432.1	552.7	1383.6	1591.7	942.3
72.5°	92.1	91.3	92.9	89.4	80.5	75.5	147.8	179.0	621.5	710.3	388.2
75°	79.4	79.0	79.8	76.3	66.3	52.6	75.1	82.1	175.3	173.8	78.6
77.5°	51.6	52.2	66.1	64.5	57.0	35.1	38.9	42.0	53.2	39.9	23.9
80°	32.9	32.6	33.5	53.6	51.2	26.8	19.5	20.4	25.6	19.7	11.6
82.5°	20.0	19.7	22.0	25.0	25.8	18.7	11.9	12.1	16.0	12.7	6.2
85°	1.7	2.3	13.3	12.3	8.9	5.8	5.8	6.2	8.5	7.5	3.5
87.5°	0.0	0.0	2.3	3.5	1.9	2.1	2.1	2.3	3.3	3.3	1.7
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°	999.1	999.1	999.1	999.1	999.1	999.1	999.1	999.1	999.1	999.1	999.1
2.5°	999.9	979.8	939.4	900.4	867.5	835.7	799.5	763.7	746.9	740.2	733.2
5°	1001.6	960.4	876.9	792.9	705.9	627.5	560.6	492.0	457.7	442.7	435.8
7.5°	1003.9	941.1	806.2	665.2	525.0	418.6	325.8	266.1	240.2	236.2	226.2
10°	1004.3	917.8	724.2	524.2	352.0	252.4	194.2	163.4	152.0	150.1	146.8
12.5°	1005.1	890.2	633.0	388.2	234.6	168.8	140.4	130.2	127.1	127.0	127.0
15°	1007.4	861.3	538.5	279.7	168.6	133.7	123.3	119.3	118.1	118.7	118.5
17.5°	1007.4	827.2	445.6	208.4	136.2	120.2	114.4	111.7	111.4	111.9	112.1
20°	1000.0	785.8	360.4	162.2	120.8	111.5	106.3	103.8	102.9	103.3	103.5
22.5°	982.5	735.0	291.1	134.3	110.6	103.6	98.1	94.2	92.7	92.9	92.9
25°	955.2	674.7	227.7	116.2	102.3	95.2	88.6	84.2	83.2	83.0	83.4
27.5°	920.1	608.0	181.3	102.3	92.5	85.7	79.2	75.5	74.7	74.9	75.1
30°	885.6	538.8	142.9	90.5	81.5	75.1	70.1	68.4	68.4	69.0	69.2
32.5°	854.0	472.4	113.1	80.3	71.7	65.9	63.0	62.8	63.8	64.2	64.3
35°	826.9	410.9	93.6	72.4	64.0	59.0	58.0	58.8	59.9	60.7	60.9
37.5°	807.6	356.0	81.9	65.9	58.0	53.9	53.7	55.3	56.8	58.6	59.0
40°	799.5	309.6	73.8	60.1	53.2	50.1	49.5	51.6	54.5	57.0	57.4
42.5°	792.8	271.6	66.8	54.5	49.3	44.9	44.7	47.4	50.9	53.4	53.9
45°	787.0	241.2	60.5	48.5	44.3	38.5	39.1	42.6	45.3	48.0	48.5
47.5°	775.0	216.2	53.6	42.2	36.6	32.9	34.1	37.2	39.3	43.3	43.9
50°	753.6	195.7	46.4	34.5	29.9	28.5	30.2	32.4	35.1	38.5	38.9
52.5°	739.2	180.3	40.3	28.9	24.7	25.0	26.8	27.5	29.1	30.4	30.1
55°	730.9	171.8	35.3	25.0	21.0	22.2	22.5	21.6	20.8	19.5	18.9
57.5°	730.0	164.1	31.4	21.8	18.5	19.1	17.7	14.4	11.8	10.2	9.8
60°	728.4	154.7	28.3	18.3	16.4	15.6	12.7	7.9	5.6	5.2	5.2
62.5°	711.7	140.1	26.0	15.4	13.9	11.8	7.3	3.7	3.1	3.3	3.3
65°	658.3	119.6	23.7	12.5	11.0	8.5	3.7	2.1	1.2	1.3	1.3
67.5°	559.6	95.4	21.2	9.6	8.3	5.4	2.1	1.0	0.0	0.0	0.0
70°	374.7	59.1	17.9	6.7	5.4	3.3	1.5	0.2	0.0	0.0	0.0
72.5°	143.7	32.0	14.4	4.0	3.5	2.3	1.0	0.0	0.0	0.0	0.0
75°	32.4	21.0	10.0	2.9	2.5	1.5	0.4	0.0	0.0	0.0	0.0
77.5°	12.3	15.2	5.8	1.9	1.7	1.0	0.0	0.0	0.0	0.0	0.0
80°	6.0	9.1	2.7	1.2	1.0	0.4	0.0	0.0	0.0	0.0	0.0
82.5°	3.1	3.5	1.2	0.6	0.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	1.7	1.7	0.6	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.0	0.6	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)