

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: P324765

Luminaire Tested: **GAN-SA1C-730-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324765
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-SA1C-730-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 1050mA 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: 5521 lumens
Efficiency: N/A
Efficacy: 93.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

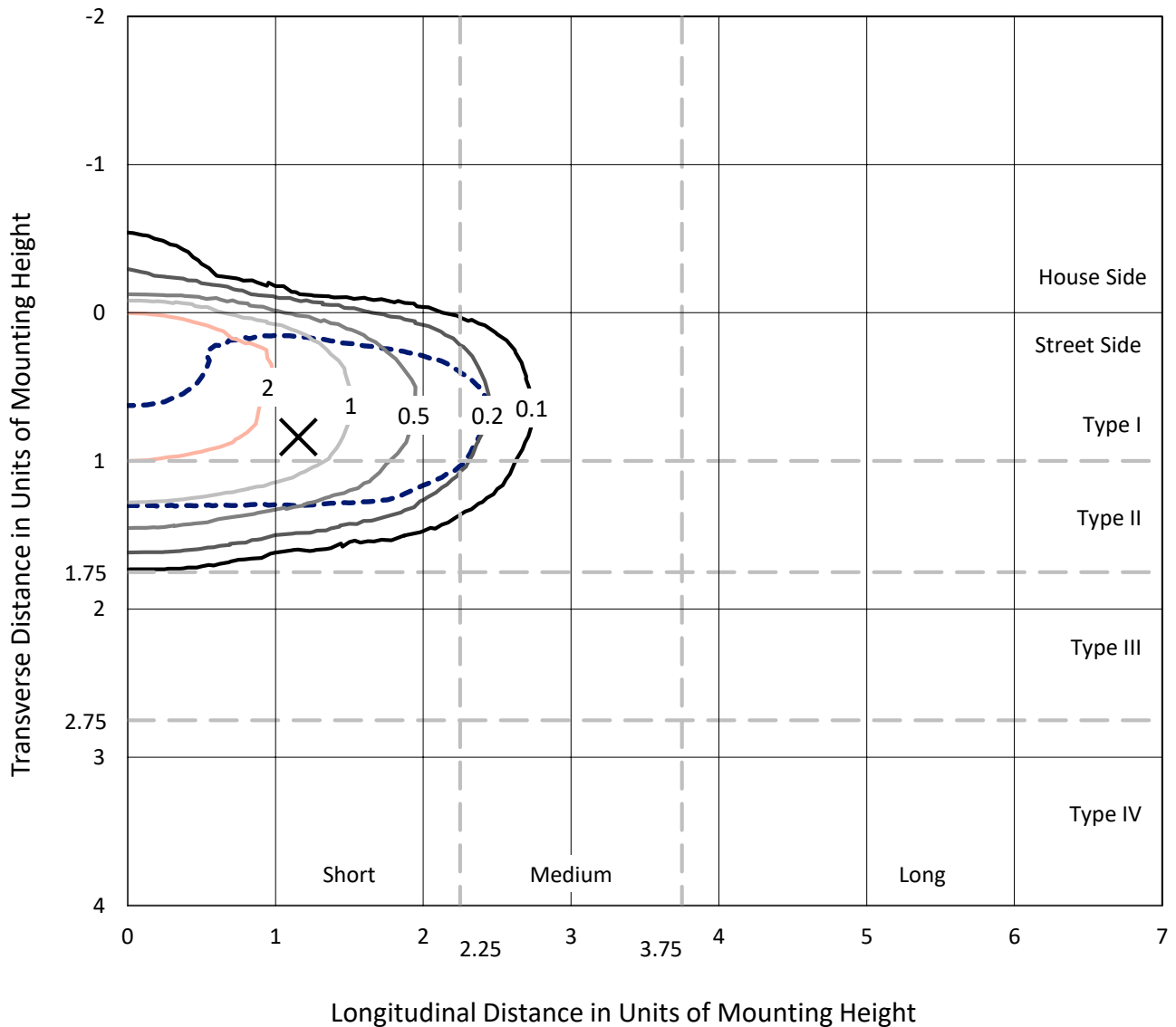
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

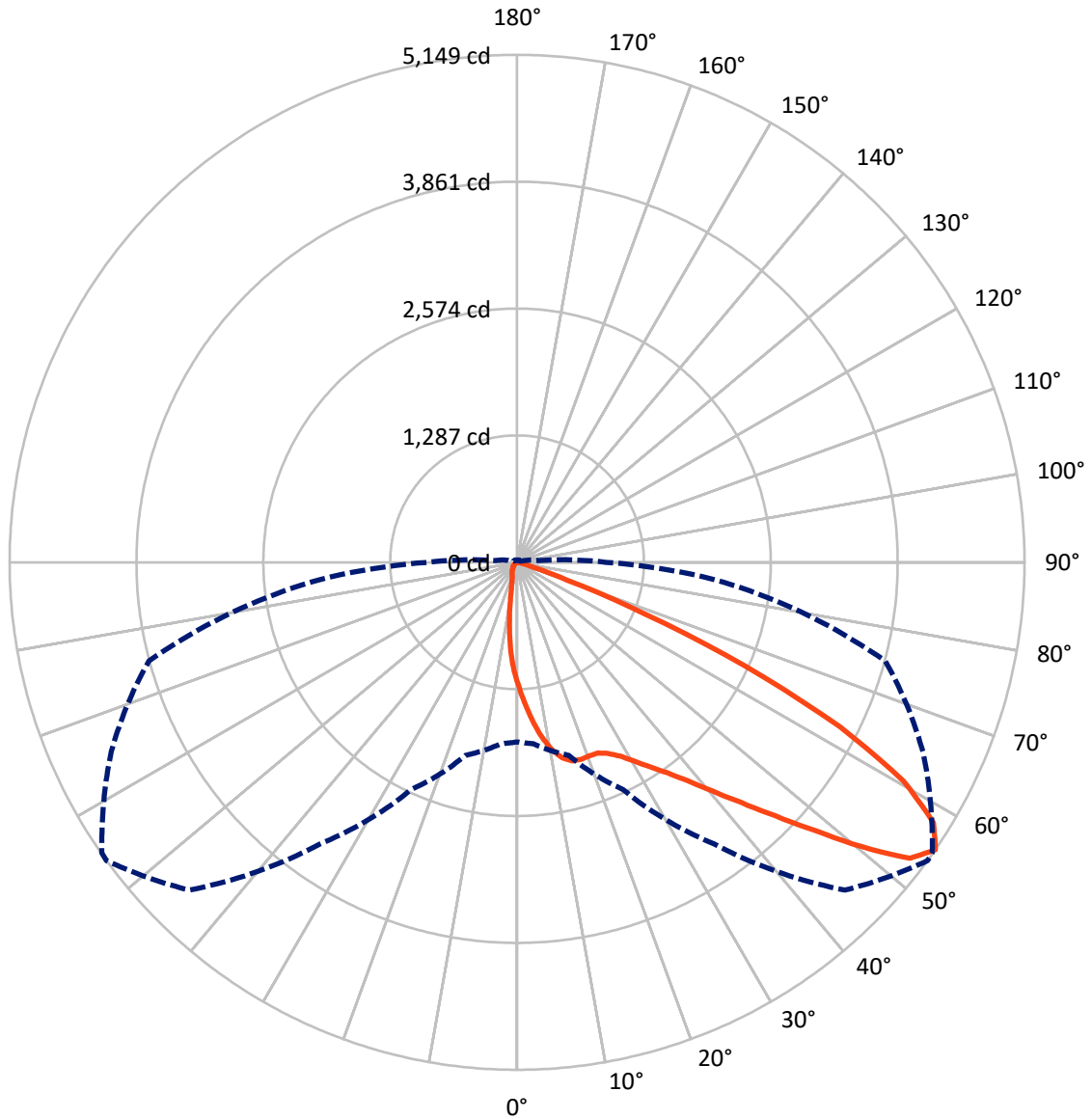
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 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	275.5	0.0	275.5
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	5245.5	0.0	5245.5
	% Fixture	95.0	0.0	95.0
Total	Lumens	5521.0	0.0	5521.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.9	2.1
10°-20°	312.3	5.7
20°-30°	533.2	9.7
30°-40°	855.6	15.5
40°-50°	1367.3	24.8
50°-60°	1465.1	26.5
60°-70°	752.2	13.6
70°-80°	114.0	2.1
80°-90°	7.4	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°	5521.0	100.0
0°-180°	5521.0	100.0

Coefficient of Utilization



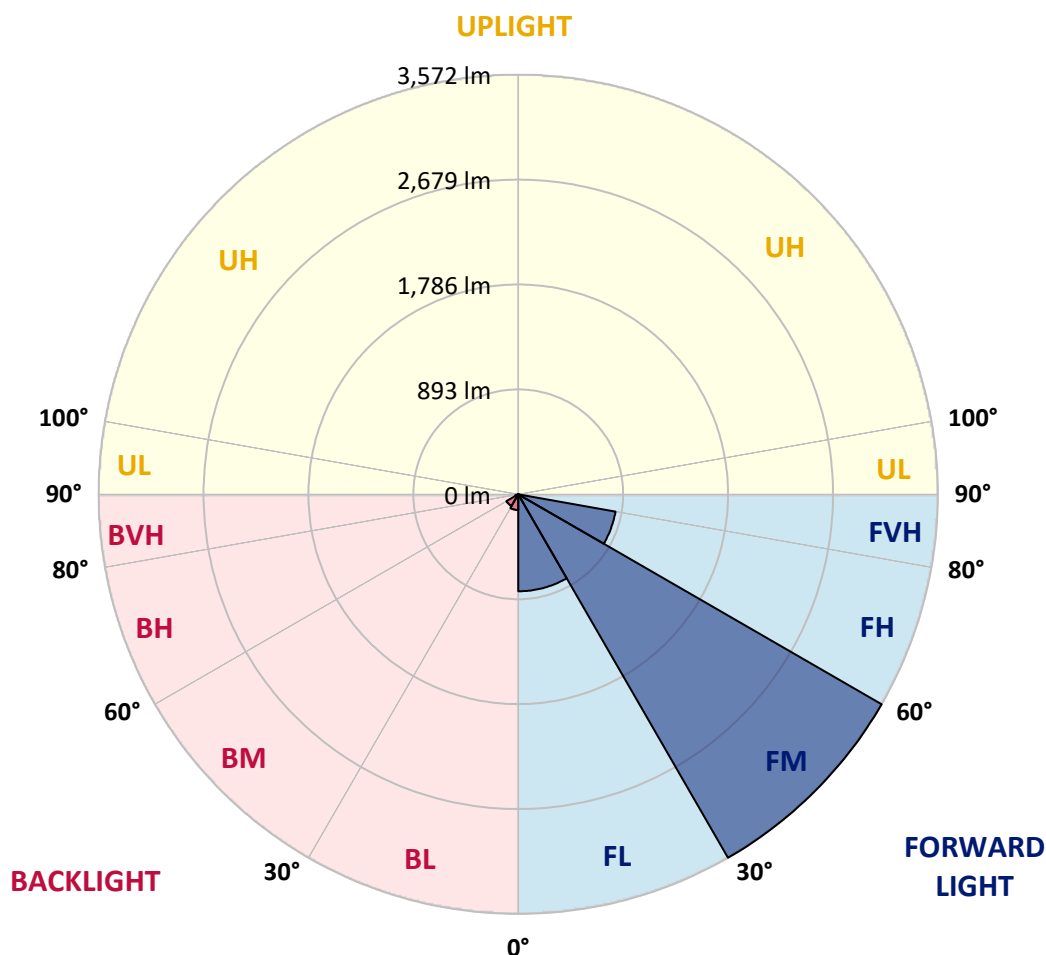
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	825.3	14.9			
FM (30°-60°)	3572.3	64.7			
FH (60°-80°)	840.8	15.2			G1/1800
FVH (80°-90°)	7.1	0.1			G0/10
BL (0°-30°)	134.0	2.4	B1/500		
BM (30°-60°)	115.8	2.1	B0/220		
BH (60°-80°)	25.4	0.5	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	1236.5	1236.5	1236.5	1236.5	1236.5	1236.5	1236.5	1236.5	1236.5	1236.5	1236.5
2.5°	1551.7	1528.6	1529.3	1518.8	1480.4	1450.4	1419.1	1411.7	1363.1	1312.1	1262.9
5°	1819.9	1803.0	1798.9	1778.7	1725.3	1668.8	1608.2	1594.1	1499.0	1394.6	1291.8
7.5°	1957.7	1958.0	1954.6	1947.2	1913.9	1859.0	1785.1	1770.3	1640.9	1484.2	1321.8
10°	1917.7	1926.7	1945.3	1969.9	1995.4	1988.5	1932.9	1919.6	1778.9	1579.1	1355.2
12.5°	1824.2	1825.4	1846.1	1886.4	1959.9	2035.2	2036.2	2031.6	1910.8	1678.3	1391.9
15°	1777.7	1782.2	1789.9	1815.9	1885.5	2006.1	2092.4	2098.9	2031.6	1783.7	1431.0
17.5°	1808.2	1814.7	1808.2	1811.3	1851.6	1960.1	2102.2	2118.7	2137.3	1887.9	1468.0
20°	1891.0	1896.9	1885.5	1872.8	1880.7	1946.8	2095.3	2117.5	2220.0	1980.4	1499.0
22.5°	2002.5	2004.9	1987.5	1966.8	1961.1	1992.1	2101.0	2123.9	2286.3	2064.1	1518.5
25°	2125.3	2127.5	2105.8	2081.9	2068.4	2081.0	2148.0	2165.2	2344.7	2143.9	1529.7
27.5°	2259.1	2261.0	2233.8	2204.5	2188.8	2189.2	2225.5	2243.8	2406.9	2235.0	1538.8
30°	2400.5	2399.5	2374.5	2333.7	2313.7	2313.2	2337.1	2355.7	2497.0	2351.8	1551.2
32.5°	2559.3	2557.4	2521.8	2471.3	2448.6	2452.0	2473.2	2483.9	2608.9	2476.3	1573.4
35°	2768.4	2762.9	2709.2	2646.5	2604.8	2603.6	2621.5	2630.1	2751.4	2627.0	1610.3
37.5°	3039.7	3034.7	2962.0	2870.9	2812.2	2790.3	2811.5	2822.5	2954.8	2820.4	1669.7
40°	3307.2	3302.2	3259.1	3175.6	3085.2	3032.6	3049.2	3060.9	3208.8	3055.0	1744.6
42.5°	3491.8	3496.1	3511.1	3518.0	3433.3	3322.7	3330.3	3342.5	3475.6	3305.8	1830.2
45°	3540.4	3549.7	3634.6	3801.2	3833.0	3746.6	3666.8	3673.4	3746.6	3556.6	1915.8
47.5°	3394.2	3411.4	3575.2	3885.2	4153.6	4214.7	4063.5	4054.7	4006.8	3759.5	1976.6
50°	3062.1	3077.9	3290.1	3748.5	4250.9	4661.5	4538.9	4512.9	4234.9	3880.9	1998.0
52.5°	2581.4	2600.5	2772.9	3318.4	4067.6	4860.8	4989.1	4967.4	4402.3	3890.4	2001.6
55°	1823.0	1846.1	2028.5	2543.3	3486.5	4702.3	5148.6	5142.2	4541.3	3865.1	2009.2
57.5°	1024.5	1041.2	1237.9	1630.4	2553.6	4095.7	4981.9	5024.6	4625.2	3821.3	2020.7
60°	454.9	459.4	561.3	811.6	1494.9	3130.1	4504.8	4576.8	4553.2	3762.6	2040.0
62.5°	252.3	248.4	248.4	337.4	649.7	1937.7	3673.4	3792.4	4245.9	3693.2	2040.9
65°	197.7	194.1	183.8	185.3	247.5	860.0	2543.8	2755.3	3662.2	3489.9	1972.3
67.5°	167.6	164.5	154.3	150.2	153.8	283.7	1397.7	1617.3	2778.9	2961.3	1708.3
70°	141.6	139.5	134.2	129.2	120.2	140.2	534.8	684.0	1712.4	1969.9	1166.1
72.5°	114.0	113.0	114.9	110.6	99.7	93.5	182.9	221.5	769.2	879.1	480.4
75°	98.2	97.8	98.7	94.4	82.0	65.1	93.0	101.6	217.0	215.1	97.3
77.5°	63.9	64.6	81.8	79.9	70.6	43.4	48.2	52.0	65.8	49.4	29.6
80°	40.8	40.3	41.5	66.3	63.4	33.1	24.1	25.3	31.7	24.3	14.3
82.5°	24.8	24.3	27.2	31.0	31.9	23.1	14.8	15.0	19.8	15.7	7.6
85°	2.1	2.9	16.5	15.3	11.0	7.2	7.2	7.6	10.5	9.3	4.3
87.5°	0.0	0.0	2.9	4.3	2.4	2.6	2.6	2.9	4.1	4.1	2.1
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°	1236.5	1236.5	1236.5	1236.5	1236.5	1236.5	1236.5	1236.5	1236.5	1236.5	1236.5
2.5°	1237.4	1212.6	1162.6	1114.4	1073.6	1034.3	989.5	945.1	924.4	916.0	907.5
5°	1239.6	1188.6	1085.3	981.4	873.6	776.6	693.8	608.9	566.5	547.9	539.3
7.5°	1242.4	1164.7	997.8	823.3	649.7	518.1	403.2	329.3	297.3	292.3	279.9
10°	1242.9	1135.9	896.2	648.8	435.6	312.3	240.3	202.2	188.1	185.7	181.7
12.5°	1243.9	1101.8	783.5	480.4	290.4	208.9	173.8	161.2	157.4	157.1	157.1
15°	1246.7	1066.0	666.4	346.2	208.6	165.5	152.6	147.6	146.2	146.9	146.6
17.5°	1246.7	1023.8	551.5	258.0	168.6	148.8	141.6	138.3	137.8	138.5	138.8
20°	1237.7	972.5	446.1	200.8	149.5	138.0	131.6	128.5	127.3	127.8	128.0
22.5°	1216.0	909.6	360.3	166.2	136.9	128.3	121.4	116.6	114.7	114.9	114.9
25°	1182.1	835.0	281.8	143.8	126.6	117.8	109.7	104.2	103.0	102.8	103.2
27.5°	1138.7	752.5	224.4	126.6	114.4	106.1	98.0	93.5	92.5	92.7	93.0
30°	1096.0	666.9	176.9	112.1	100.9	93.0	86.8	84.6	84.6	85.4	85.6
32.5°	1056.9	584.6	140.0	99.4	88.7	81.5	78.0	77.7	78.9	79.4	79.6
35°	1023.3	508.6	115.9	89.6	79.2	73.0	71.8	72.7	74.2	75.1	75.3
37.5°	999.5	440.6	101.3	81.5	71.8	66.8	66.5	68.4	70.3	72.5	73.0
40°	989.5	383.2	91.3	74.4	65.8	62.0	61.3	63.9	67.5	70.6	71.1
42.5°	981.1	336.2	82.7	67.5	61.0	55.6	55.3	58.7	62.9	66.0	66.8
45°	974.0	298.5	74.9	60.1	54.8	47.7	48.4	52.7	56.0	59.4	60.1
47.5°	959.2	267.5	66.3	52.2	45.3	40.8	42.2	46.0	48.6	53.6	54.4
50°	932.7	242.2	57.5	42.7	37.0	35.3	37.4	40.1	43.4	47.7	48.2
52.5°	914.8	223.2	49.8	35.8	30.5	31.0	33.1	34.1	36.0	37.7	37.2
55°	904.6	212.7	43.6	31.0	26.0	27.4	27.9	26.7	25.8	24.1	23.4
57.5°	903.4	203.1	38.9	26.9	22.9	23.6	21.9	17.9	14.5	12.6	12.2
60°	901.5	191.5	35.0	22.7	20.3	19.3	15.7	9.8	6.9	6.4	6.4
62.5°	880.7	173.3	32.2	19.1	17.2	14.5	9.1	4.5	3.8	4.1	4.1
65°	814.7	148.1	29.3	15.5	13.6	10.5	4.5	2.6	1.4	1.7	1.7
67.5°	692.6	118.0	26.2	11.9	10.3	6.7	2.6	1.2	0.0	0.0	0.0
70°	463.7	73.2	22.2	8.3	6.7	4.1	1.9	0.2	0.0	0.0	0.0
72.5°	177.9	39.6	17.9	5.0	4.3	2.9	1.2	0.0	0.0	0.0	0.0
75°	40.1	26.0	12.4	3.6	3.1	1.9	0.5	0.0	0.0	0.0	0.0
77.5°	15.3	18.8	7.2	2.4	2.1	1.2	0.0	0.0	0.0	0.0	0.0
80°	7.4	11.2	3.3	1.4	1.2	0.5	0.0	0.0	0.0	0.0	0.0
82.5°	3.8	4.3	1.4	0.7	0.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.1	2.1	0.7	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.2	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)