

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: P324855

Luminaire Tested: **GAN-SA1D-750-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324855
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-SA1D-750-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5000K, 1200mA 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: 6649 lumens
Efficiency: N/A
Efficacy: 99.2 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

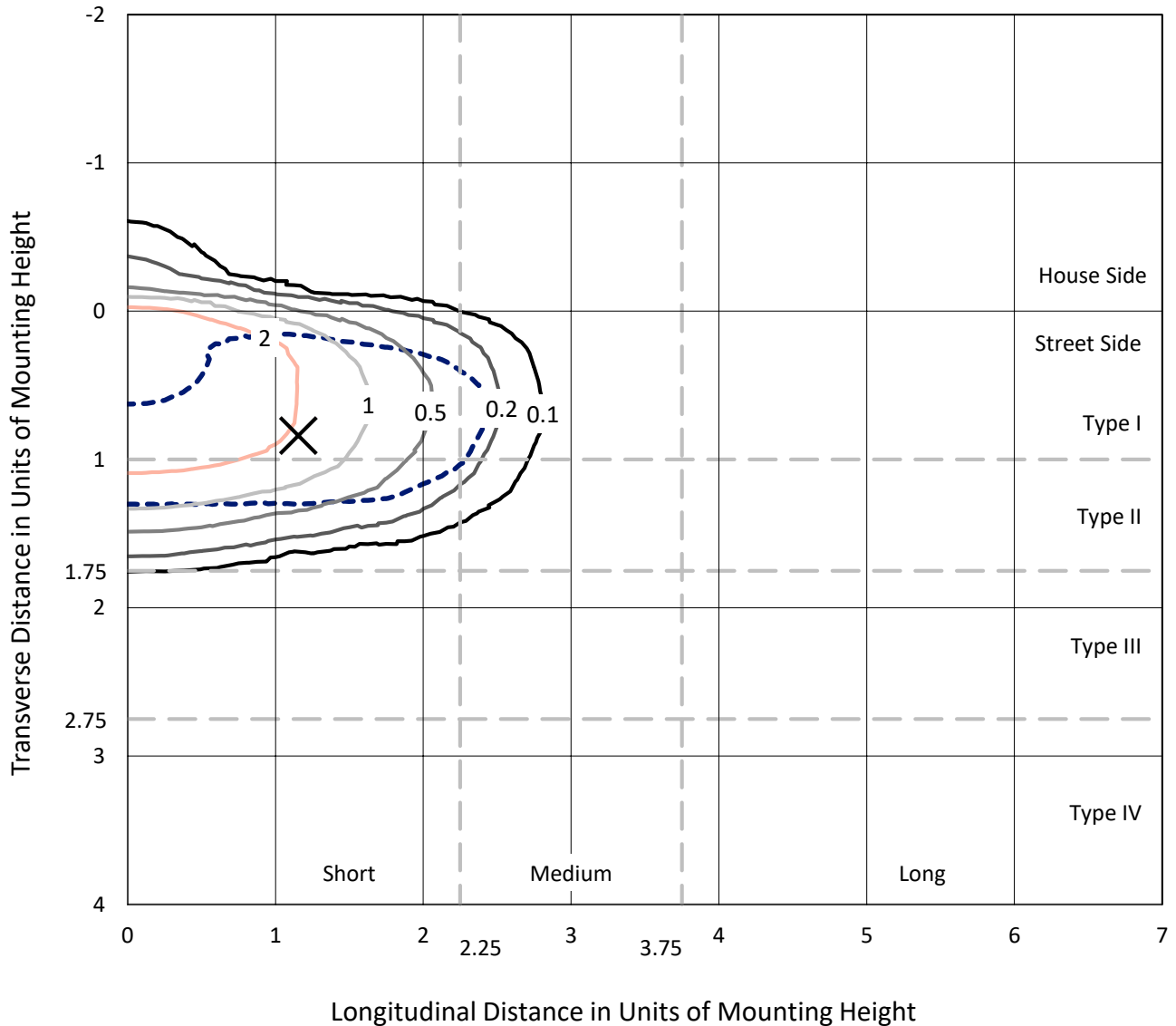
Input Watts (W): 67
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

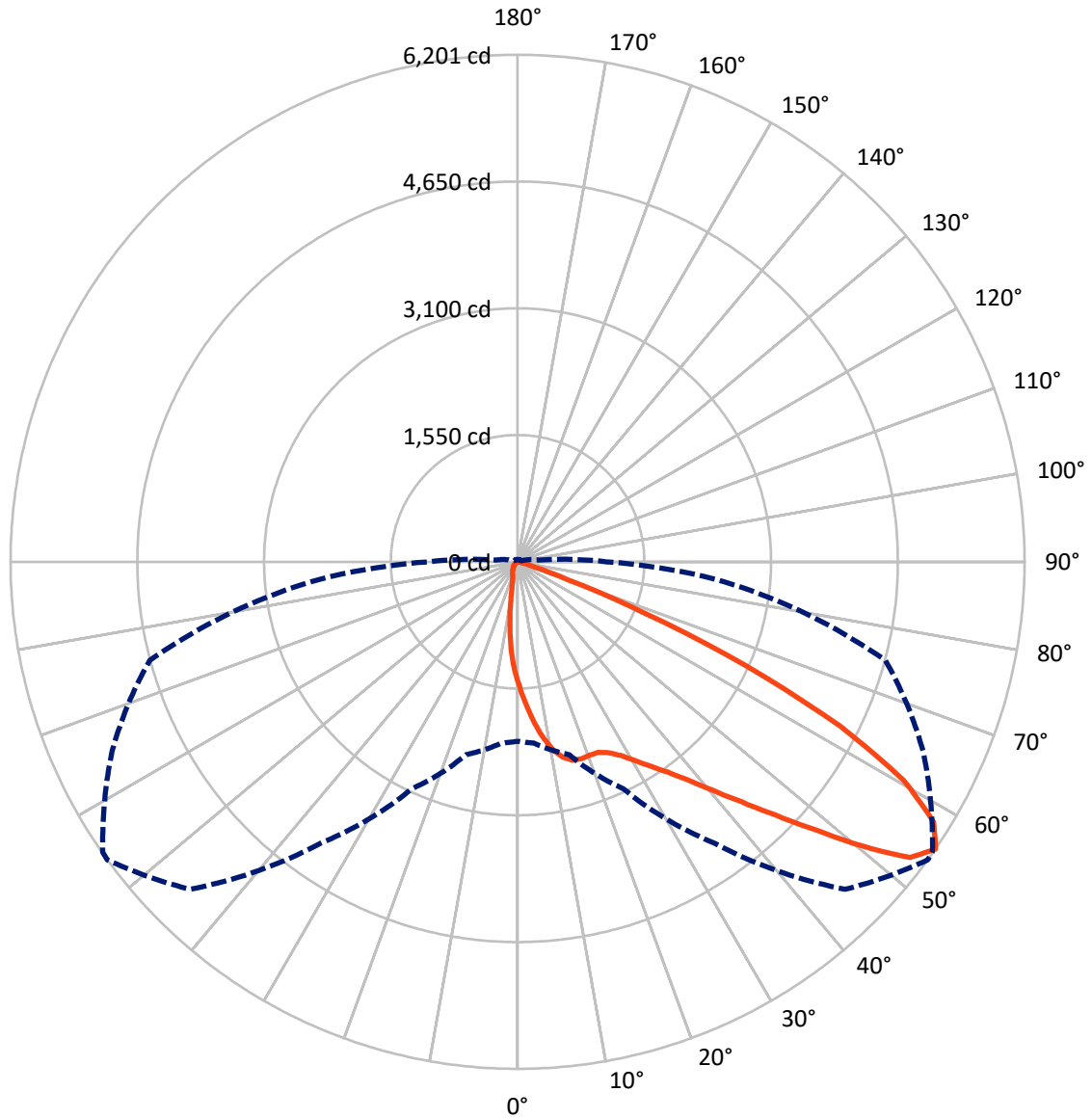
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 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	331.7	0.0	331.7
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	6317.3	0.0	6317.3
	% Fixture	95.0	0.0	95.0
Total	Lumens	6649.0	0.0	6649.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.1	2.1
10°-20°	376.1	5.7
20°-30°	642.1	9.7
30°-40°	1030.5	15.5
40°-50°	1646.7	24.8
50°-60°	1764.5	26.5
60°-70°	905.9	13.6
70°-80°	137.2	2.1
80°-90°	8.9	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°	6649.0	100.0
0°-180°	6649.0	100.0

Coefficient of Utilization

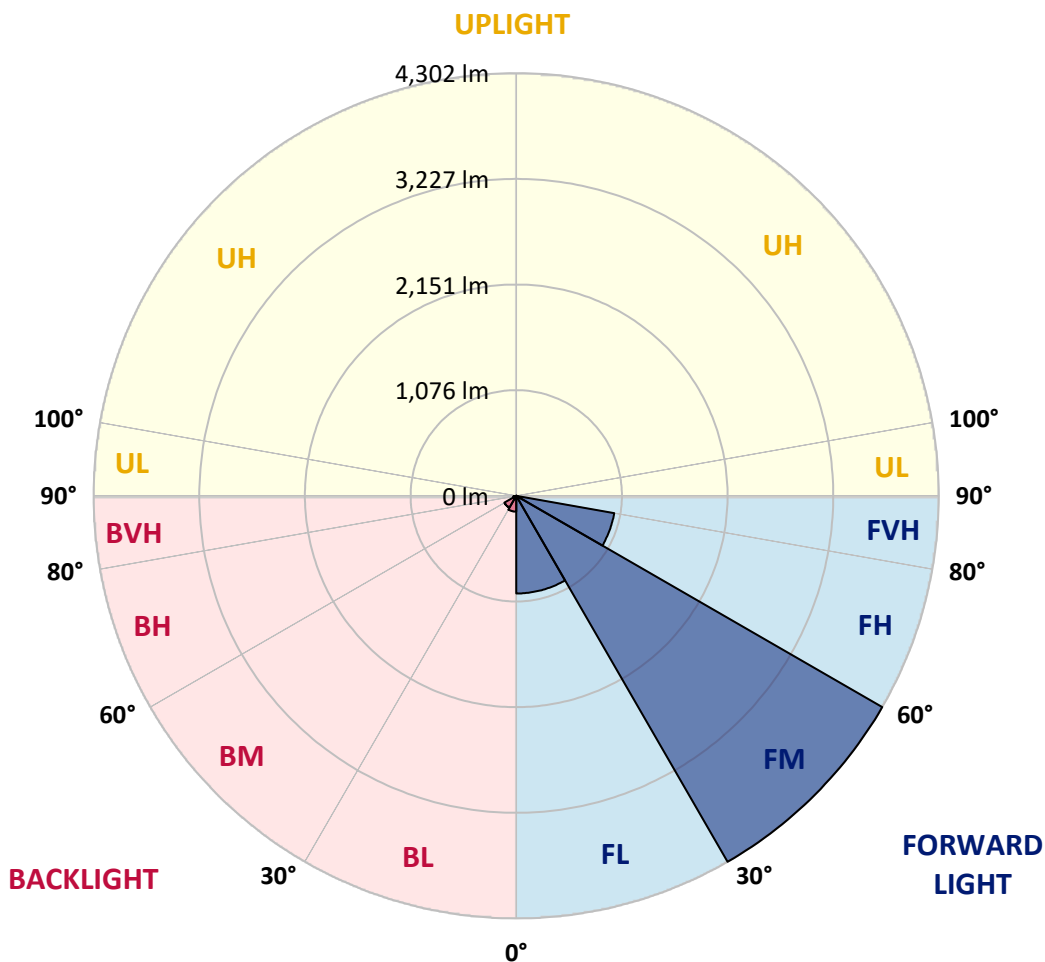


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	993.9	14.9			
FM (30°-60°)	4302.2	64.7			
FH (60°-80°)	1012.6	15.2			G1/1800
FVH (80°-90°)	8.6	0.1			G0/10
BL (0°-30°)	161.4	2.4	B1/500		
BM (30°-60°)	139.4	2.1	B0/220		
BH (60°-80°)	30.6	0.5	B0/110		G0/110
BVH (80°-90°)	0.4	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°	1489.1	1489.1	1489.1	1489.1	1489.1	1489.1	1489.1	1489.1	1489.1	1489.1	1489.1
2.5°	1868.7	1840.9	1841.7	1829.1	1782.9	1746.7	1709.1	1700.2	1641.6	1580.1	1521.0
5°	2191.7	2171.4	2166.5	2142.1	2077.7	2009.7	1936.8	1919.8	1805.3	1679.5	1555.7
7.5°	2357.7	2358.0	2354.0	2345.1	2304.9	2238.8	2149.8	2132.0	1976.1	1787.4	1591.9
10°	2309.5	2320.4	2342.8	2372.4	2403.1	2394.7	2327.8	2311.8	2142.4	1901.7	1632.1
12.5°	2196.9	2198.3	2223.3	2271.9	2360.3	2451.0	2452.2	2446.7	2301.1	2021.2	1676.3
15°	2140.9	2146.4	2155.6	2186.9	2270.7	2416.0	2519.9	2527.7	2446.7	2148.1	1723.4
17.5°	2177.7	2185.4	2177.7	2181.4	2229.9	2360.6	2531.7	2551.5	2573.9	2273.6	1767.9
20°	2277.3	2284.5	2270.7	2255.5	2265.0	2344.5	2523.4	2550.1	2673.6	2385.0	1805.3
22.5°	2411.7	2414.6	2393.6	2368.6	2361.7	2399.1	2530.3	2557.8	2753.4	2485.8	1828.8
25°	2559.6	2562.2	2536.0	2507.3	2490.9	2506.2	2586.8	2607.5	2823.7	2582.0	1842.3
27.5°	2720.7	2723.0	2690.2	2654.9	2635.9	2636.5	2680.2	2702.3	2898.7	2691.7	1853.2
30°	2890.9	2889.8	2859.6	2810.5	2786.4	2785.8	2814.5	2836.9	3007.2	2832.4	1868.1
32.5°	3082.2	3079.9	3037.1	2976.2	2948.9	2952.9	2978.5	2991.4	3141.9	2982.2	1894.8
35°	3334.0	3327.4	3262.8	3187.3	3137.0	3135.6	3157.1	3167.4	3313.6	3163.7	1939.3
37.5°	3660.8	3654.7	3567.1	3457.5	3386.8	3360.4	3386.0	3399.2	3558.5	3396.6	2010.8
40°	3982.9	3976.9	3924.9	3824.4	3715.6	3652.1	3672.2	3686.3	3864.3	3679.1	2101.0
42.5°	4205.2	4210.3	4228.4	4236.8	4134.8	4001.6	4010.8	4025.4	4185.6	3981.2	2204.1
45°	4263.7	4274.9	4377.2	4577.9	4616.1	4512.1	4415.9	4424.0	4512.1	4283.3	2307.2
47.5°	4087.7	4108.4	4305.7	4678.9	5002.3	5075.8	4893.7	4883.1	4825.4	4527.6	2380.4
50°	3687.7	3706.7	3962.2	4514.4	5119.4	5613.9	5466.3	5435.0	5100.2	4673.8	2406.2
52.5°	3108.9	3131.8	3339.4	3996.4	4898.6	5853.9	6008.4	5982.3	5301.8	4685.3	2410.5
55°	2195.5	2223.3	2443.0	3062.9	4198.9	5663.0	6200.5	6192.8	5469.2	4654.8	2419.7
57.5°	1233.8	1253.9	1490.8	1963.5	3075.3	4932.5	5999.8	6051.2	5570.2	4602.0	2433.5
60°	547.9	553.3	675.9	977.4	1800.4	3769.6	5425.2	5511.9	5483.5	4531.4	2456.8
62.5°	303.8	299.2	299.2	406.3	782.5	2333.6	4424.0	4567.3	5113.4	4447.8	2457.9
65°	238.0	233.7	221.4	223.1	298.1	1035.7	3063.5	3318.2	4410.5	4202.9	2375.2
67.5°	201.9	198.1	185.8	180.9	185.2	341.7	1683.2	1947.7	3346.6	3566.3	2057.4
70°	170.6	168.0	161.7	155.6	144.7	168.8	644.1	823.8	2062.2	2372.4	1404.4
72.5°	137.3	136.1	138.4	133.2	120.0	112.6	220.2	266.8	926.3	1058.7	578.6
75°	118.3	117.7	118.9	113.7	98.8	78.4	112.0	122.3	261.3	259.0	117.2
77.5°	77.0	77.8	98.5	96.2	85.0	52.3	58.0	62.6	79.3	59.4	35.6
80°	49.1	48.5	50.0	79.8	76.4	39.9	29.0	30.4	38.2	29.3	17.2
82.5°	29.9	29.3	32.7	37.3	38.5	27.9	17.8	18.1	23.8	19.0	9.2
85°	2.6	3.4	19.8	18.4	13.2	8.6	8.6	9.2	12.6	11.2	5.2
87.5°	0.0	0.0	3.4	5.2	2.9	3.2	3.2	3.4	4.9	4.9	2.6
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°	1489.1	1489.1	1489.1	1489.1	1489.1	1489.1	1489.1	1489.1	1489.1	1489.1	1489.1
2.5°	1490.3	1460.4	1400.1	1342.1	1293.0	1245.6	1191.6	1138.2	1113.2	1103.2	1092.9
5°	1492.8	1431.4	1307.1	1181.9	1052.1	935.2	835.6	733.4	682.2	659.8	649.5
7.5°	1496.3	1402.7	1201.7	991.5	782.5	624.0	485.6	396.5	358.1	352.0	337.1
10°	1496.9	1367.9	1079.4	781.3	524.6	376.2	289.4	243.5	226.6	223.7	218.8
12.5°	1498.0	1326.9	943.5	578.6	349.7	251.5	209.3	194.1	189.5	189.2	189.2
15°	1501.5	1283.8	802.6	416.9	251.2	199.3	183.8	177.7	176.0	176.9	176.6
17.5°	1501.5	1233.0	664.2	310.7	203.0	179.2	170.6	166.5	166.0	166.8	167.1
20°	1490.5	1171.2	537.2	241.8	180.0	166.3	158.5	154.8	153.3	153.9	154.2
22.5°	1464.4	1095.4	433.9	200.1	164.8	154.5	146.2	140.4	138.1	138.4	138.4
25°	1423.6	1005.6	339.4	173.1	152.5	141.8	132.1	125.5	124.0	123.8	124.3
27.5°	1371.4	906.2	270.2	152.5	137.8	127.8	118.0	112.6	111.4	111.7	112.0
30°	1320.0	803.1	213.1	135.0	121.5	112.0	104.5	101.9	101.9	102.8	103.1
32.5°	1272.9	704.1	168.6	119.7	106.8	98.2	93.9	93.6	95.0	95.6	95.9
35°	1232.4	612.5	139.6	108.0	95.3	87.9	86.4	87.6	89.3	90.4	90.7
37.5°	1203.7	530.6	122.0	98.2	86.4	80.4	80.1	82.4	84.7	87.3	87.9
40°	1191.6	461.4	110.0	89.6	79.3	74.7	73.8	77.0	81.3	85.0	85.6
42.5°	1181.6	404.9	99.6	81.3	73.5	66.9	66.6	70.6	75.8	79.5	80.4
45°	1173.0	359.5	90.2	72.4	66.0	57.4	58.3	63.5	67.5	71.5	72.4
47.5°	1155.2	322.2	79.8	62.9	54.6	49.1	50.8	55.4	58.6	64.6	65.5
50°	1123.3	291.7	69.2	51.4	44.5	42.5	45.1	48.2	52.3	57.4	58.0
52.5°	1101.8	268.8	60.0	43.1	36.8	37.3	39.9	41.1	43.4	45.4	44.8
55°	1089.4	256.1	52.5	37.3	31.3	33.0	33.6	32.2	31.0	29.0	28.1
57.5°	1088.0	244.6	46.8	32.4	27.6	28.4	26.4	21.5	17.5	15.2	14.6
60°	1085.7	230.6	42.2	27.3	24.4	23.3	19.0	11.8	8.3	7.8	7.8
62.5°	1060.7	208.8	38.8	23.0	20.7	17.5	10.9	5.5	4.6	4.9	4.9
65°	981.2	178.3	35.3	18.7	16.4	12.6	5.5	3.2	1.7	2.0	2.0
67.5°	834.1	142.1	31.6	14.4	12.3	8.0	3.2	1.4	0.0	0.0	0.0
70°	558.5	88.2	26.7	10.0	8.0	4.9	2.3	0.3	0.0	0.0	0.0
72.5°	214.2	47.7	21.5	6.0	5.2	3.4	1.4	0.0	0.0	0.0	0.0
75°	48.2	31.3	14.9	4.3	3.7	2.3	0.6	0.0	0.0	0.0	0.0
77.5°	18.4	22.7	8.6	2.9	2.6	1.4	0.0	0.0	0.0	0.0	0.0
80°	8.9	13.5	4.0	1.7	1.4	0.6	0.0	0.0	0.0	0.0	0.0
82.5°	4.6	5.2	1.7	0.9	0.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.6	2.6	0.9	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.4	0.9	0.3	0.3	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)