

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: P324805

Luminaire Tested: **GAN-SA1C-740-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324805
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-740-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 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: 6062 lumens
Efficiency: N/A
Efficacy: 102.7 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

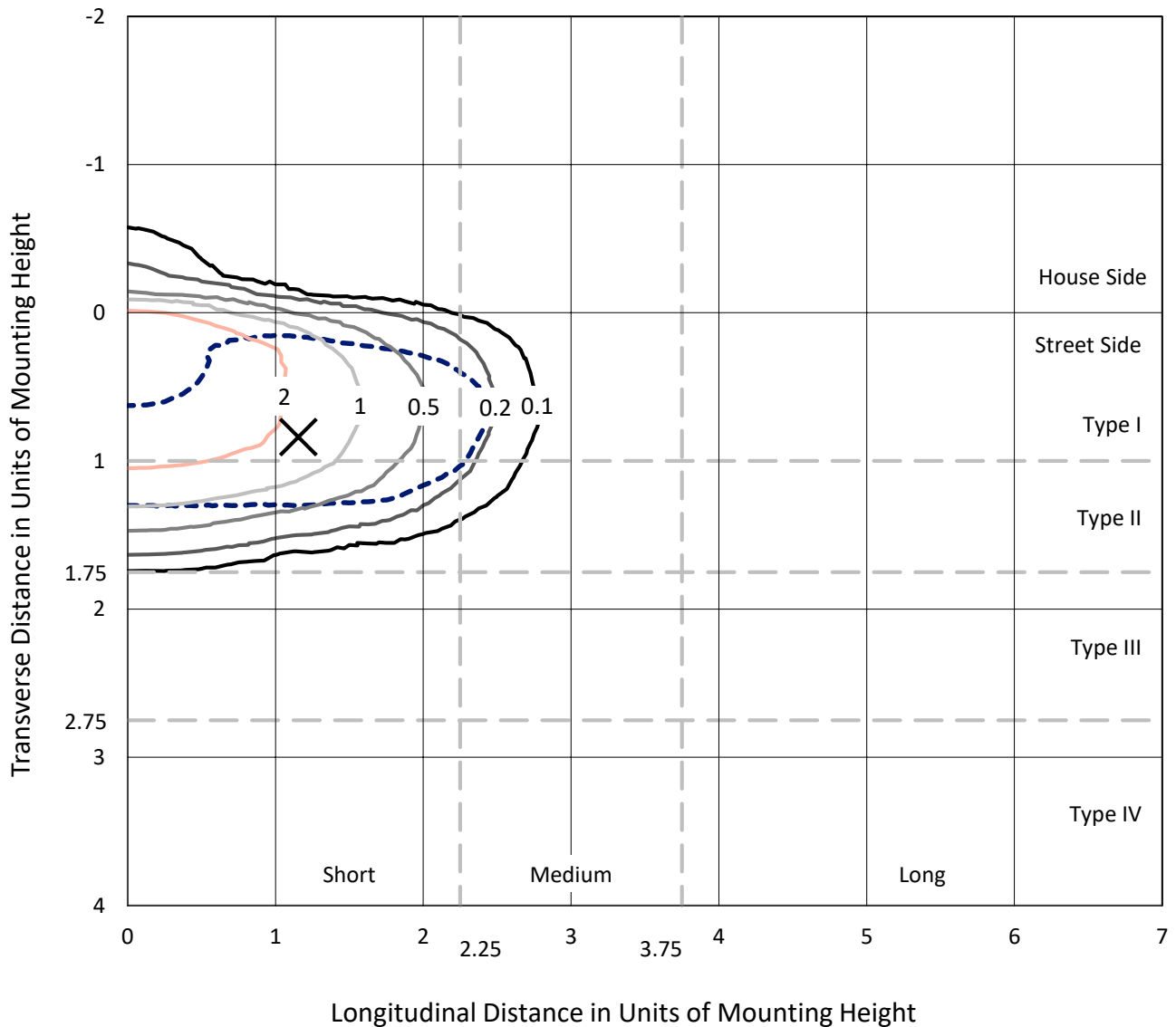
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

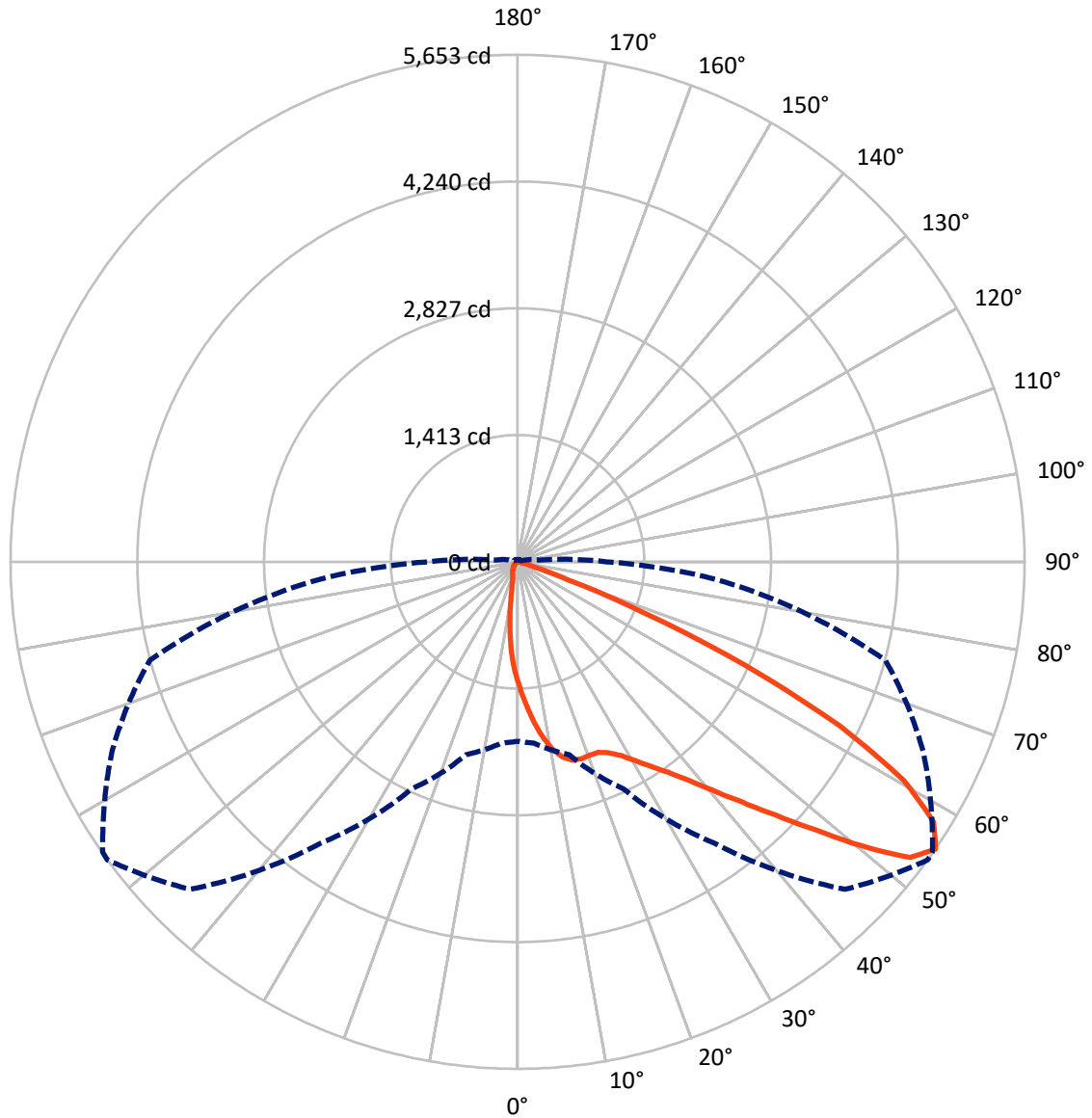
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 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	302.4	0.0	302.4
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	5759.5	0.0	5759.5
	% Fixture	95.0	0.0	95.0
Total	Lumens	6062.0	0.0	6062.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.0	2.1
10°-20°	342.9	5.7
20°-30°	585.4	9.7
30°-40°	939.5	15.5
40°-50°	1501.3	24.8
50°-60°	1608.7	26.5
60°-70°	825.9	13.6
70°-80°	125.1	2.1
80°-90°	8.1	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°	6062.0	100.0
0°-180°	6062.0	100.0

Coefficient of Utilization

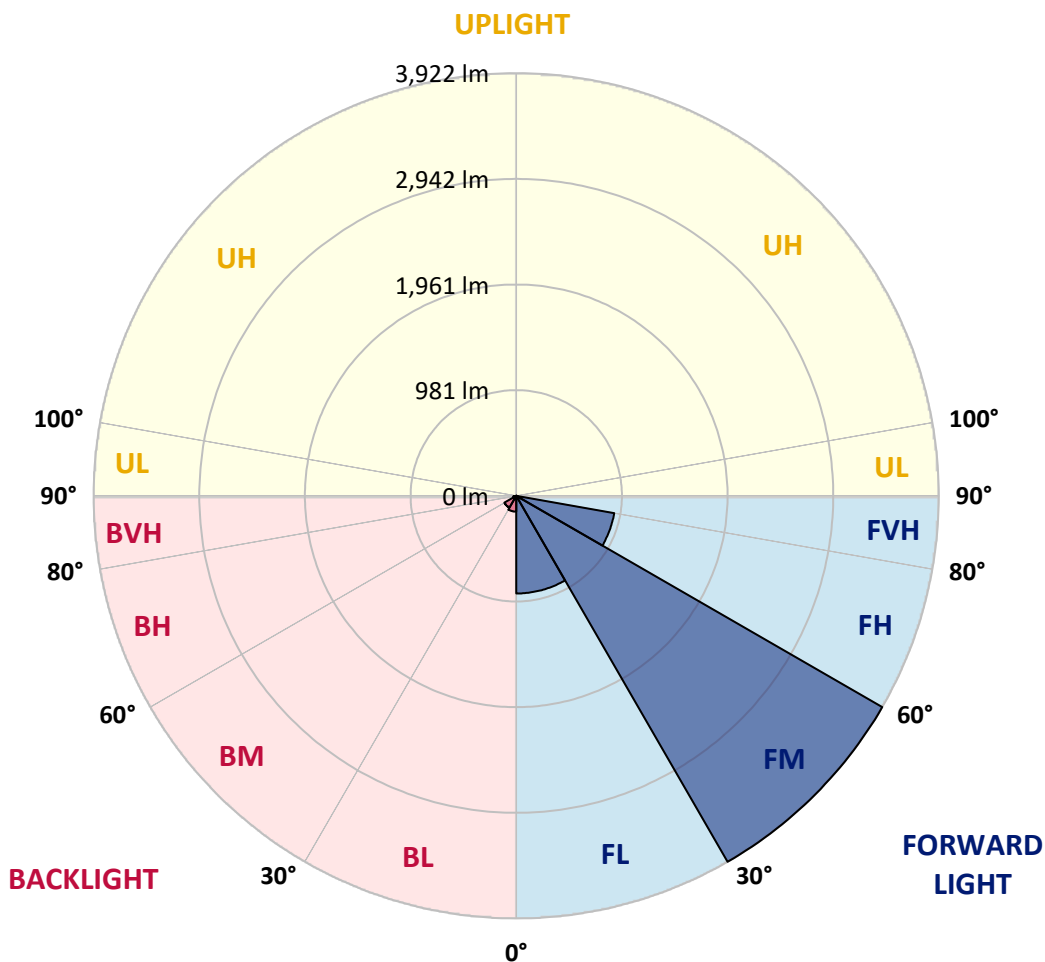


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	906.2	14.9			
FM (30°-60°)	3922.4	64.7			
FH (60°-80°)	923.2	15.2			G1/1800
FVH (80°-90°)	7.8	0.1			G0/10
BL (0°-30°)	147.2	2.4	B1/500		
BM (30°-60°)	127.1	2.1	B0/220		
BH (60°-80°)	27.9	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°	1357.6	1357.6	1357.6	1357.6	1357.6	1357.6	1357.6	1357.6	1357.6	1357.6	1357.6
2.5°	1703.7	1678.3	1679.1	1667.6	1625.5	1592.5	1558.2	1550.1	1496.7	1440.6	1386.7
5°	1998.2	1979.7	1975.2	1953.0	1894.3	1832.3	1765.8	1750.3	1645.9	1531.2	1418.4
7.5°	2149.6	2149.8	2146.2	2138.0	2101.4	2041.2	1960.0	1943.8	1801.6	1629.6	1451.4
10°	2105.6	2115.5	2135.9	2162.9	2190.9	2183.3	2122.3	2107.7	1953.2	1733.8	1488.0
12.5°	2003.0	2004.3	2027.0	2071.3	2151.9	2234.6	2235.7	2230.7	2098.0	1842.7	1528.3
15°	1951.9	1956.9	1965.3	1993.8	2070.2	2202.7	2297.5	2304.5	2230.7	1958.5	1571.3
17.5°	1985.4	1992.5	1985.4	1988.8	2033.1	2152.2	2308.2	2326.3	2346.7	2072.9	1611.8
20°	2076.3	2082.8	2070.2	2056.4	2065.0	2137.5	2300.6	2325.0	2437.5	2174.4	1645.9
22.5°	2198.8	2201.4	2182.3	2159.5	2153.2	2187.3	2306.9	2332.0	2510.3	2266.3	1667.3
25°	2333.6	2336.0	2312.1	2286.0	2271.0	2284.9	2358.5	2377.3	2574.4	2354.0	1679.6
27.5°	2480.5	2482.6	2452.7	2420.5	2403.2	2403.8	2443.6	2463.7	2642.8	2454.0	1689.6
30°	2635.7	2634.7	2607.2	2562.4	2540.4	2539.9	2566.1	2586.5	2741.7	2582.3	1703.2
32.5°	2810.1	2808.0	2769.0	2713.5	2688.6	2692.3	2715.6	2727.3	2864.5	2719.0	1727.6
35°	3039.6	3033.6	2974.7	2905.9	2860.1	2858.8	2878.4	2887.8	3021.1	2884.4	1768.1
37.5°	3337.6	3332.1	3252.2	3152.2	3087.8	3063.7	3087.0	3099.1	3244.4	3096.7	1833.3
40°	3631.3	3625.8	3578.4	3486.8	3387.6	3329.7	3348.0	3360.9	3523.2	3354.3	1915.5
42.5°	3833.9	3838.6	3855.1	3862.7	3769.8	3648.3	3656.7	3670.0	3816.1	3629.7	2009.5
45°	3887.3	3897.5	3990.7	4173.7	4208.5	4113.8	4026.1	4033.4	4113.8	3905.1	2103.5
47.5°	3726.8	3745.7	3925.5	4265.9	4560.6	4627.7	4461.7	4452.0	4399.4	4127.9	2170.2
50°	3362.2	3379.5	3612.4	4115.9	4667.5	5118.3	4983.7	4955.2	4649.9	4261.2	2193.8
52.5°	2834.4	2855.3	3044.6	3643.6	4466.1	5337.1	5478.0	5454.1	4833.7	4271.6	2197.7
55°	2001.6	2027.0	2227.3	2792.5	3828.2	5163.0	5653.1	5646.0	4986.3	4243.9	2206.1
57.5°	1124.9	1143.2	1359.2	1790.1	2803.8	4497.0	5470.1	5517.0	5078.5	4195.7	2218.7
60°	499.5	504.5	616.3	891.1	1641.4	3436.8	4946.3	5025.3	4999.4	4131.3	2239.9
62.5°	277.0	272.8	272.8	370.4	713.4	2127.6	4033.4	4164.0	4662.0	4055.1	2240.9
65°	217.0	213.1	201.8	203.4	271.7	944.3	2793.0	3025.2	4021.1	3831.8	2165.5
67.5°	184.0	180.6	169.4	164.9	168.9	311.5	1534.6	1775.7	3051.2	3251.4	1875.7
70°	155.5	153.1	147.4	141.9	131.9	153.9	587.2	751.1	1880.2	2162.9	1280.4
72.5°	125.1	124.1	126.2	121.5	109.4	102.6	200.8	243.2	844.5	965.2	527.5
75°	107.9	107.3	108.4	103.7	90.1	71.5	102.1	111.5	238.2	236.1	106.8
77.5°	70.2	70.9	89.8	87.7	77.5	47.6	52.9	57.1	72.3	54.2	32.5
80°	44.8	44.2	45.6	72.8	69.6	36.4	26.4	27.7	34.8	26.7	15.7
82.5°	27.2	26.7	29.8	34.0	35.1	25.4	16.2	16.5	21.7	17.3	8.4
85°	2.4	3.1	18.1	16.8	12.0	7.9	7.9	8.4	11.5	10.2	4.7
87.5°	0.0	0.0	3.1	4.7	2.6	2.9	2.9	3.1	4.5	4.5	2.4
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°	1357.6	1357.6	1357.6	1357.6	1357.6	1357.6	1357.6	1357.6	1357.6	1357.6	1357.6
2.5°	1358.7	1331.5	1276.5	1223.6	1178.8	1135.6	1086.4	1037.7	1015.0	1005.8	996.4
5°	1361.0	1305.0	1191.7	1077.5	959.2	852.7	761.8	668.6	622.0	601.6	592.2
7.5°	1364.2	1278.8	1095.6	904.0	713.4	568.9	442.7	361.5	326.5	321.0	307.3
10°	1364.7	1247.2	984.1	712.3	478.3	342.9	263.9	222.0	206.6	203.9	199.5
12.5°	1365.8	1209.7	860.2	527.5	318.9	229.3	190.8	177.0	172.8	172.5	172.5
15°	1368.9	1170.5	731.7	380.1	229.1	181.7	167.5	162.0	160.5	161.3	161.0
17.5°	1368.9	1124.1	605.5	283.3	185.1	163.4	155.5	151.8	151.3	152.1	152.4
20°	1359.0	1067.8	489.8	220.4	164.1	151.6	144.5	141.1	139.8	140.3	140.6
22.5°	1335.1	998.7	395.6	182.5	150.3	140.8	133.3	128.0	125.9	126.2	126.2
25°	1298.0	916.8	309.4	157.9	139.0	129.3	120.4	114.4	113.1	112.8	113.4
27.5°	1250.3	826.2	246.3	139.0	125.7	116.5	107.6	102.6	101.6	101.8	102.1
30°	1203.5	732.2	194.2	123.0	110.7	102.1	95.3	92.9	92.9	93.7	94.0
32.5°	1160.5	641.9	153.7	109.2	97.4	89.5	85.6	85.3	86.7	87.2	87.4
35°	1123.6	558.4	127.2	98.4	86.9	80.1	78.8	79.8	81.4	82.5	82.7
37.5°	1097.4	483.8	111.3	89.5	78.8	73.3	73.0	75.1	77.2	79.6	80.1
40°	1086.4	420.7	100.3	81.7	72.3	68.1	67.3	70.2	74.1	77.5	78.0
42.5°	1077.3	369.1	90.8	74.1	67.0	61.0	60.7	64.4	69.1	72.5	73.3
45°	1069.4	327.8	82.2	66.0	60.2	52.4	53.1	57.9	61.5	65.2	66.0
47.5°	1053.2	293.7	72.8	57.3	49.7	44.8	46.3	50.5	53.4	58.9	59.7
50°	1024.1	266.0	63.1	46.9	40.6	38.7	41.1	44.0	47.6	52.4	52.9
52.5°	1004.5	245.0	54.7	39.3	33.5	34.0	36.4	37.4	39.5	41.4	40.8
55°	993.2	233.5	47.9	34.0	28.5	30.1	30.6	29.3	28.3	26.4	25.7
57.5°	991.9	223.0	42.7	29.6	25.1	25.9	24.1	19.6	16.0	13.9	13.4
60°	989.8	210.2	38.5	24.9	22.3	21.2	17.3	10.7	7.6	7.1	7.1
62.5°	967.1	190.3	35.3	20.9	18.8	16.0	9.9	5.0	4.2	4.5	4.5
65°	894.5	162.6	32.2	17.0	14.9	11.5	5.0	2.9	1.6	1.8	1.8
67.5°	760.5	129.6	28.8	13.1	11.3	7.3	2.9	1.3	0.0	0.0	0.0
70°	509.2	80.4	24.3	9.2	7.3	4.5	2.1	0.3	0.0	0.0	0.0
72.5°	195.3	43.5	19.6	5.5	4.7	3.1	1.3	0.0	0.0	0.0	0.0
75°	44.0	28.5	13.6	3.9	3.4	2.1	0.5	0.0	0.0	0.0	0.0
77.5°	16.8	20.7	7.9	2.6	2.4	1.3	0.0	0.0	0.0	0.0	0.0
80°	8.1	12.3	3.7	1.6	1.3	0.5	0.0	0.0	0.0	0.0	0.0
82.5°	4.2	4.7	1.6	0.8	0.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.4	2.4	0.8	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.3	0.8	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)