

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: P324775

Luminaire Tested: **GAN-SA1D-730-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324775
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-730-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 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: 6057 lumens
Efficiency: N/A
Efficacy: 90.4 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

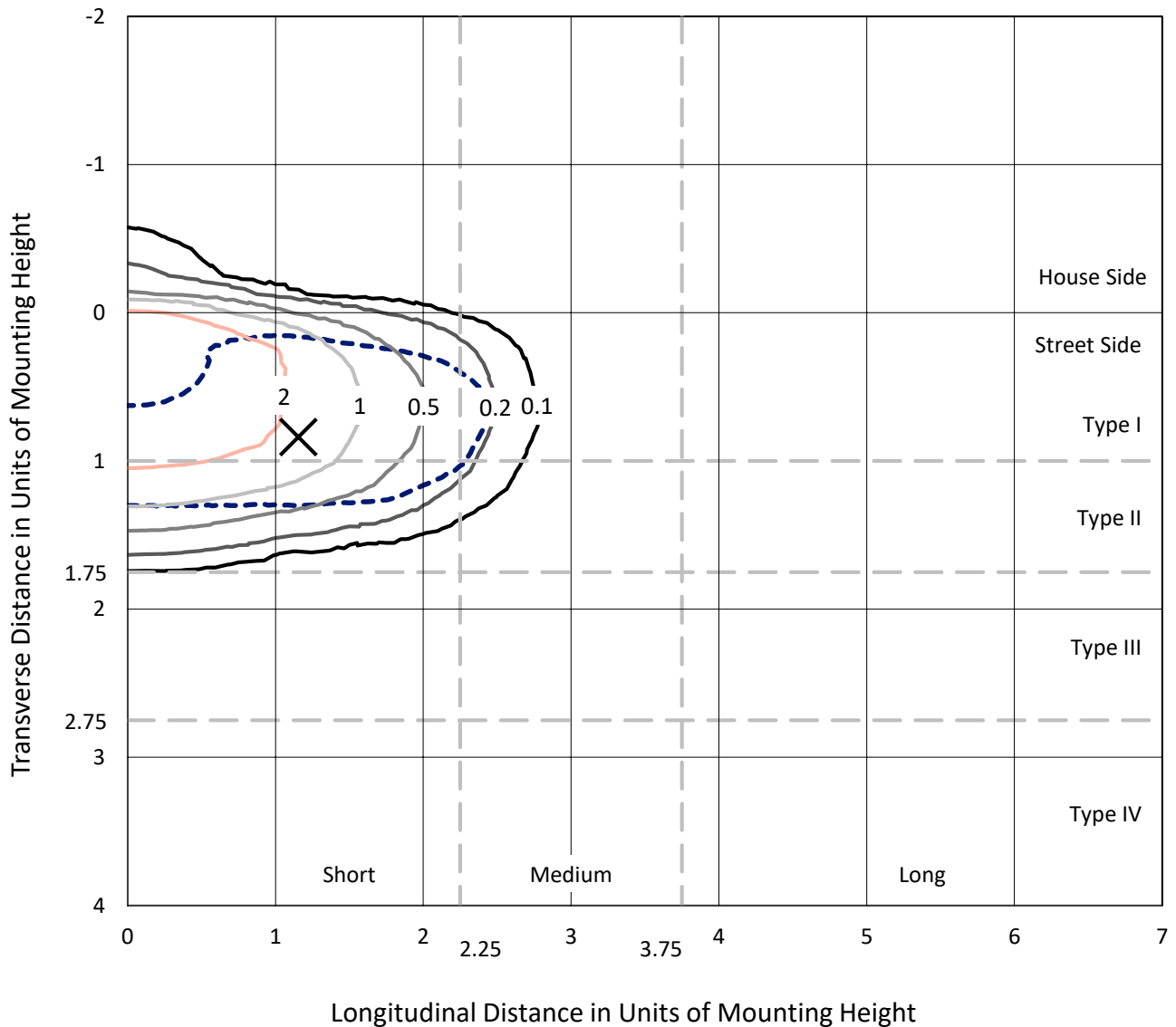
Input Watts (W): 67
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

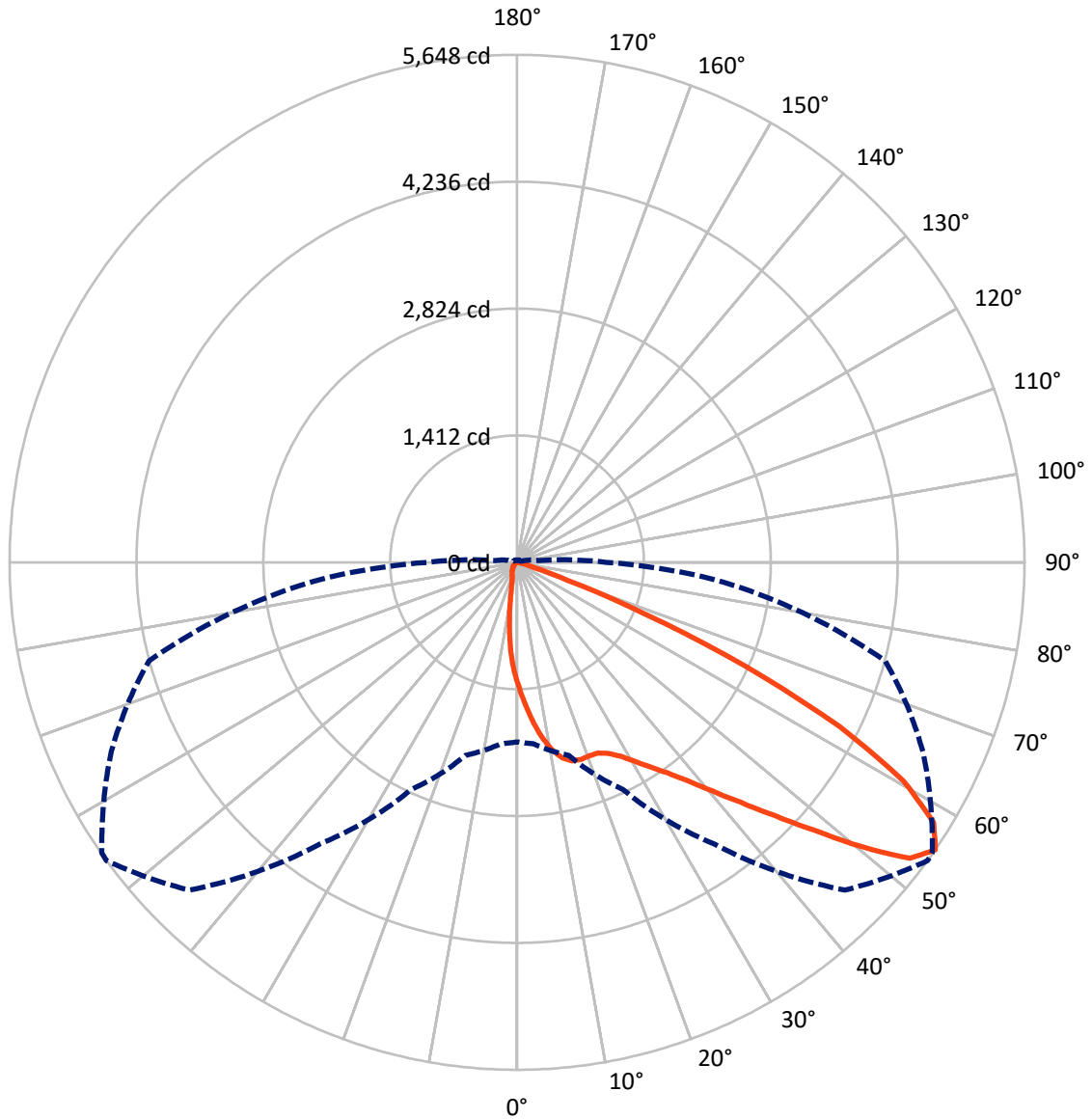
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 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	302.2	0.0	302.2
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	5754.8	0.0	5754.8
	% Fixture	95.0	0.0	95.0
Total	Lumens	6057.0	0.0	6057.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.9	2.1
10°-20°	342.6	5.7
20°-30°	584.9	9.7
30°-40°	938.7	15.5
40°-50°	1500.1	24.8
50°-60°	1607.4	26.5
60°-70°	825.3	13.6
70°-80°	125.0	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°	6057.0	100.0
0°-180°	6057.0	100.0

Coefficient of Utilization

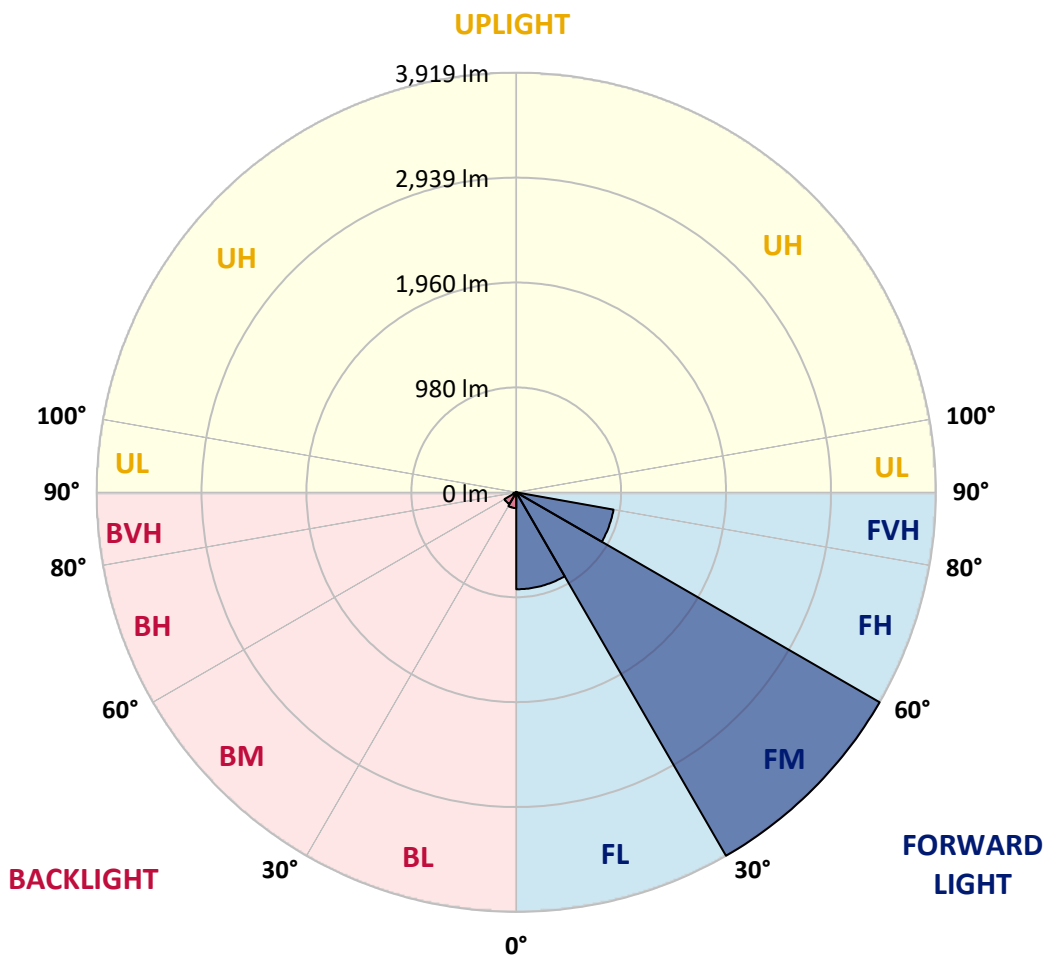


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	905.4	14.9			
FM (30°-60°)	3919.2	64.7			
FH (60°-80°)	922.4	15.2			G1/1800
FVH (80°-90°)	7.8	0.1			G0/10
BL (0°-30°)	147.0	2.4	B1/500		
BM (30°-60°)	127.0	2.1	B0/220		
BH (60°-80°)	27.8	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°	1356.5	1356.5	1356.5	1356.5	1356.5	1356.5	1356.5	1356.5	1356.5	1356.5	1356.5
2.5°	1702.3	1677.0	1677.7	1666.2	1624.1	1591.2	1556.9	1548.8	1495.4	1439.4	1385.6
5°	1996.6	1978.0	1973.6	1951.3	1892.8	1830.8	1764.3	1748.9	1644.5	1529.9	1417.2
7.5°	2147.8	2148.0	2144.4	2136.3	2099.7	2039.5	1958.4	1942.2	1800.2	1628.3	1450.2
10°	2103.8	2113.8	2134.2	2161.1	2189.1	2181.5	2120.6	2105.9	1951.6	1732.4	1486.8
12.5°	2001.3	2002.6	2025.4	2069.6	2150.1	2232.8	2233.8	2228.9	2096.3	1841.2	1527.1
15°	1950.3	1955.3	1963.6	1992.2	2068.5	2200.9	2295.6	2302.6	2228.9	1956.8	1570.0
17.5°	1983.8	1990.8	1983.8	1987.2	2031.4	2150.4	2306.3	2324.4	2344.8	2071.1	1610.5
20°	2074.5	2081.1	2068.5	2054.7	2063.3	2135.8	2298.7	2323.0	2435.5	2172.6	1644.5
22.5°	2197.0	2199.6	2180.5	2157.7	2151.4	2185.5	2305.0	2330.1	2508.2	2264.4	1666.0
25°	2331.7	2334.0	2310.2	2284.1	2269.2	2283.0	2356.5	2375.4	2572.3	2352.1	1678.3
27.5°	2478.4	2480.5	2450.7	2418.5	2401.3	2401.8	2441.5	2461.7	2640.6	2452.0	1688.2
30°	2633.5	2632.5	2605.0	2560.3	2538.3	2537.8	2564.0	2584.4	2739.5	2580.2	1701.8
32.5°	2807.7	2805.6	2766.7	2711.2	2686.4	2690.0	2713.3	2725.1	2862.1	2716.7	1726.1
35°	3037.1	3031.1	2972.3	2903.5	2857.7	2856.4	2876.0	2885.4	3018.6	2882.0	1766.7
37.5°	3334.8	3329.3	3249.5	3149.6	3085.3	3061.2	3084.5	3096.5	3241.7	3094.2	1831.8
40°	3628.3	3622.8	3575.5	3483.9	3384.8	3327.0	3345.3	3358.1	3520.3	3351.6	1913.9
42.5°	3830.8	3835.5	3851.9	3859.5	3766.7	3645.3	3653.7	3667.0	3813.0	3626.7	2007.8
45°	3884.1	3894.3	3987.4	4170.3	4205.1	4110.4	4022.8	4030.1	4110.4	3901.9	2101.8
47.5°	3723.8	3742.6	3922.3	4262.4	4556.9	4623.9	4458.0	4448.3	4395.8	4124.5	2168.5
50°	3359.4	3376.7	3609.5	4112.5	4663.6	5114.0	4979.6	4951.1	4646.1	4257.6	2192.0
52.5°	2832.1	2853.0	3042.1	3640.6	4462.5	5332.7	5473.4	5449.6	4829.7	4268.1	2195.9
55°	2000.0	2025.4	2225.5	2790.2	3825.0	5158.8	5648.4	5641.4	4982.2	4240.4	2204.3
57.5°	1124.0	1142.3	1358.1	1788.6	2801.5	4493.3	5465.6	5512.4	5074.3	4192.3	2216.8
60°	499.1	504.1	615.7	890.4	1640.1	3433.9	4942.2	5021.2	4995.3	4127.9	2238.0
62.5°	276.7	272.6	272.6	370.1	712.8	2125.8	4030.1	4160.6	4658.1	4051.8	2239.1
65°	216.8	212.9	201.7	203.2	271.5	943.5	2790.7	3022.8	4017.8	3828.7	2163.7
67.5°	183.9	180.5	169.2	164.8	168.7	311.3	1533.3	1774.3	3048.6	3248.8	1874.2
70°	155.4	153.0	147.3	141.8	131.8	153.8	586.7	750.5	1878.6	2161.1	1279.4
72.5°	125.0	124.0	126.1	121.4	109.3	102.5	200.6	243.0	843.8	964.4	527.1
75°	107.8	107.2	108.3	103.6	90.0	71.4	102.0	111.4	238.0	235.9	106.7
77.5°	70.1	70.9	89.7	87.6	77.4	47.6	52.8	57.0	72.2	54.1	32.4
80°	44.7	44.2	45.5	72.7	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	18.0	16.7	12.0	7.8	7.8	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	4.4	4.4	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°	1356.5	1356.5	1356.5	1356.5	1356.5	1356.5	1356.5	1356.5	1356.5	1356.5	1356.5
2.5°	1357.6	1330.4	1275.4	1222.6	1177.9	1134.7	1085.5	1036.9	1014.1	1005.0	995.6
5°	1359.9	1303.9	1190.7	1076.6	958.4	851.9	761.2	668.1	621.5	601.1	591.7
7.5°	1363.1	1277.8	1094.7	903.2	712.8	568.4	442.3	361.2	326.2	320.7	307.1
10°	1363.6	1246.1	983.3	711.7	477.9	342.7	263.7	221.8	206.4	203.8	199.3
12.5°	1364.6	1208.7	859.5	527.1	318.6	229.1	190.7	176.8	172.6	172.4	172.4
15°	1367.8	1169.5	731.1	379.8	228.9	181.5	167.4	161.9	160.3	161.1	160.9
17.5°	1367.8	1123.2	605.0	283.0	184.9	163.2	155.4	151.7	151.2	152.0	152.2
20°	1357.8	1067.0	489.4	220.2	164.0	151.5	144.4	141.0	139.7	140.2	140.5
22.5°	1334.0	997.9	395.2	182.3	150.1	140.7	133.1	127.9	125.8	126.1	126.1
25°	1296.9	916.0	309.2	157.7	138.9	129.2	120.3	114.3	113.0	112.7	113.3
27.5°	1249.3	825.5	246.1	138.9	125.6	116.4	107.5	102.5	101.5	101.8	102.0
30°	1202.5	731.6	194.1	122.9	110.6	102.0	95.2	92.9	92.9	93.6	93.9
32.5°	1159.6	641.4	153.5	109.1	97.3	89.5	85.5	85.3	86.6	87.1	87.4
35°	1122.7	557.9	127.1	98.4	86.8	80.0	78.7	79.8	81.3	82.4	82.7
37.5°	1096.5	483.4	111.2	89.5	78.7	73.2	73.0	75.1	77.2	79.5	80.0
40°	1085.5	420.4	100.2	81.6	72.2	68.0	67.2	70.1	74.0	77.4	77.9
42.5°	1076.4	368.8	90.8	74.0	67.0	60.9	60.7	64.3	69.1	72.5	73.2
45°	1068.5	327.5	82.1	65.9	60.2	52.3	53.1	57.8	61.5	65.1	65.9
47.5°	1052.3	293.5	72.7	57.3	49.7	44.7	46.3	50.5	53.4	58.9	59.6
50°	1023.3	265.8	63.0	46.8	40.5	38.7	41.1	43.9	47.6	52.3	52.8
52.5°	1003.7	244.8	54.7	39.2	33.5	34.0	36.4	37.4	39.5	41.3	40.8
55°	992.4	233.3	47.9	34.0	28.5	30.1	30.6	29.3	28.3	26.4	25.6
57.5°	991.1	222.9	42.6	29.6	25.1	25.9	24.1	19.6	16.0	13.9	13.3
60°	989.0	210.0	38.5	24.8	22.2	21.2	17.3	10.7	7.6	7.1	7.1
62.5°	966.3	190.2	35.3	20.9	18.8	16.0	9.9	5.0	4.2	4.4	4.4
65°	893.8	162.4	32.2	17.0	14.9	11.5	5.0	2.9	1.6	1.8	1.8
67.5°	759.9	129.5	28.8	13.1	11.2	7.3	2.9	1.3	0.0	0.0	0.0
70°	508.8	80.3	24.3	9.2	7.3	4.4	2.1	0.3	0.0	0.0	0.0
72.5°	195.1	43.4	19.6	5.5	4.7	3.1	1.3	0.0	0.0	0.0	0.0
75°	43.9	28.5	13.6	3.9	3.4	2.1	0.5	0.0	0.0	0.0	0.0
77.5°	16.7	20.7	7.8	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)