

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: P321236

Luminaire Tested: **GAN-SA2B-730-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321236
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-9)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2B-730-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8594 lumens
Efficiency: N/A
Efficacy: 101.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

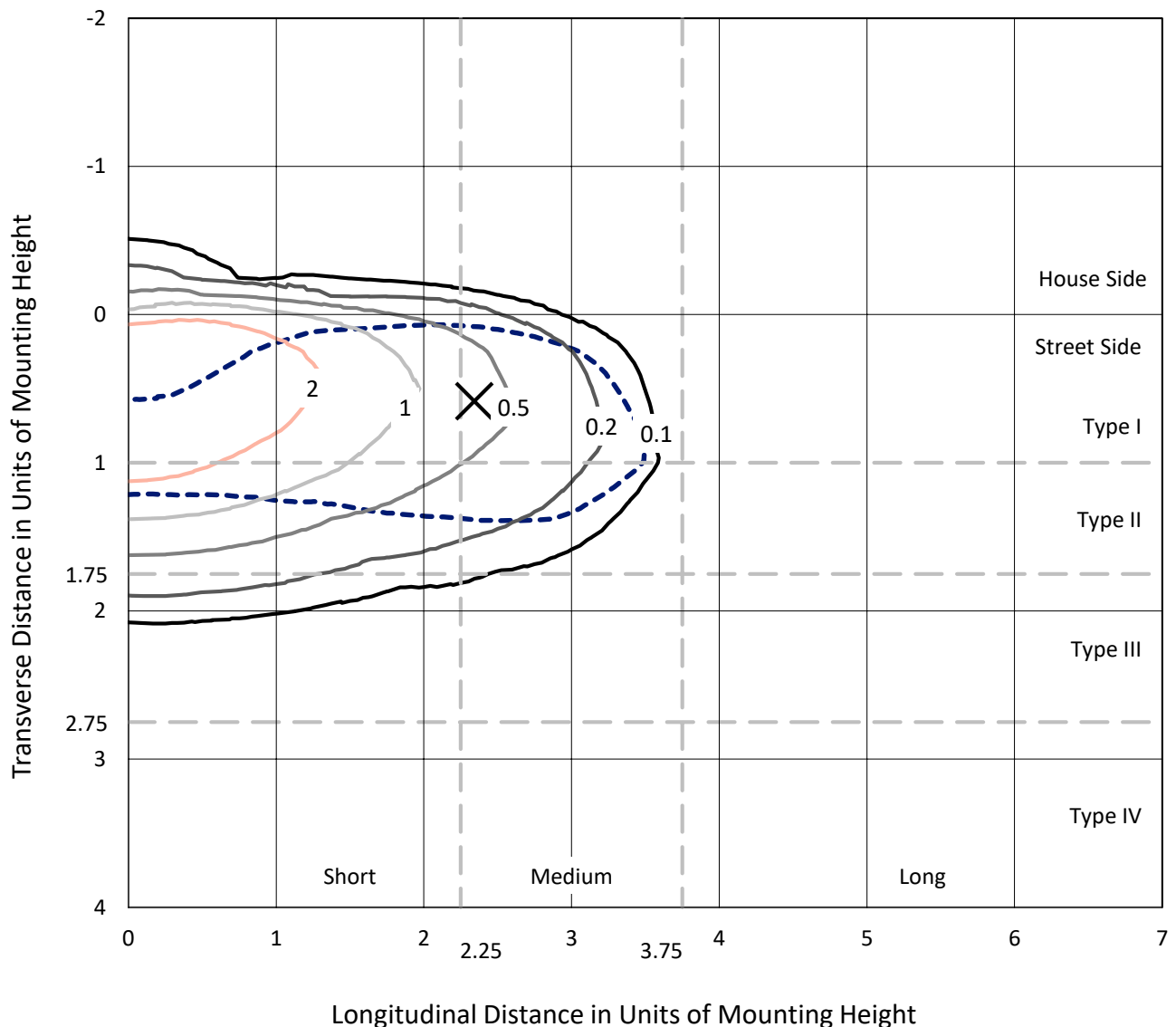
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

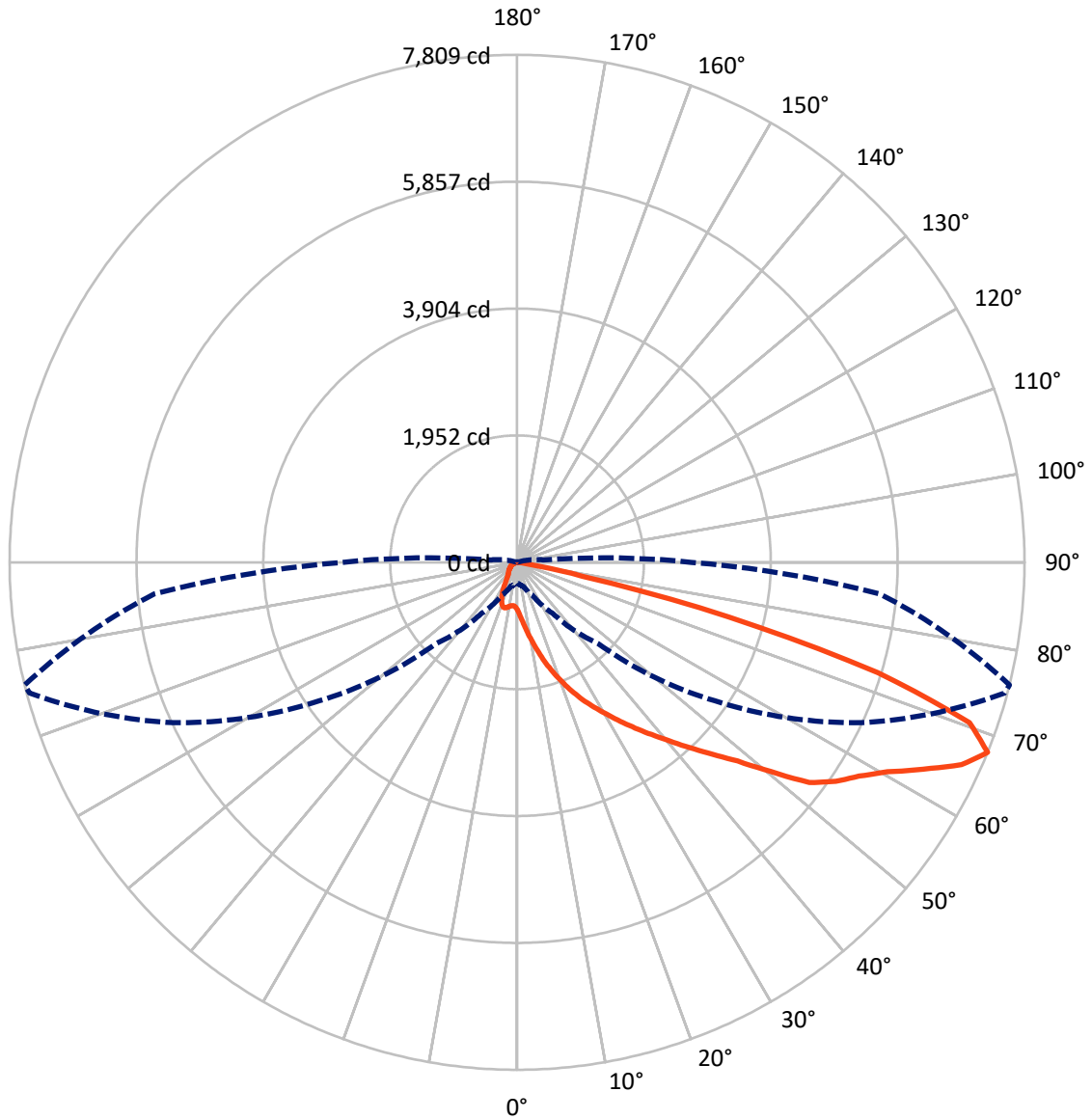
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	426.8	0.0	426.8
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	8167.3	0.0	8167.3
	% Fixture	95.0	0.0	95.0
Total	Lumens	8594.0	0.0	8594.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.7	1.1
10°-20°	359.4	4.2
20°-30°	731.2	8.5
30°-40°	1269.1	14.8
40°-50°	1793.1	20.9
50°-60°	2033.4	23.7
60°-70°	1686.5	19.6
70°-80°	610.9	7.1
80°-90°	19.8	0.2
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°	8594.0	100.0
0°-180°	8594.0	100.0

Coefficient of Utilization

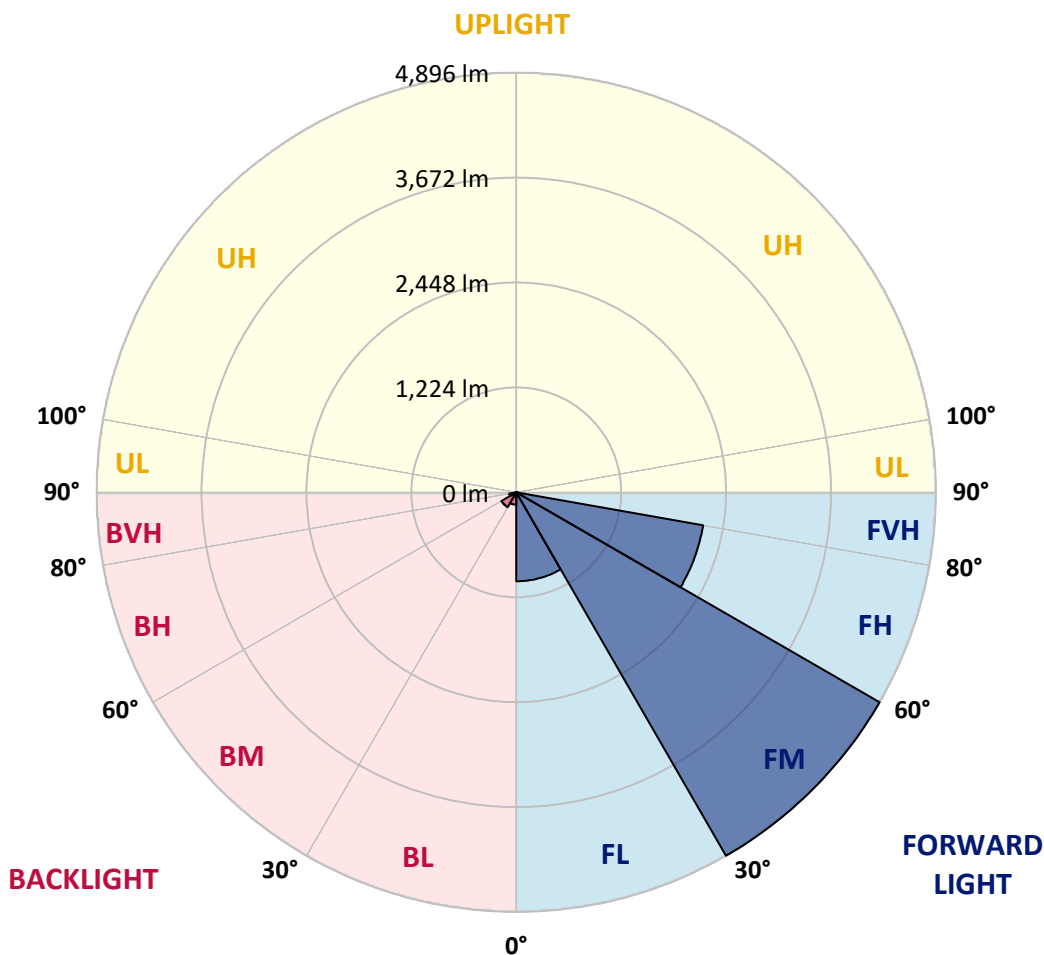


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1037.3	12.1			
FM (30°-60°)	4895.8	57.0			
FH (60°-80°)	2215.0	25.8			G2/5000
FVH (80°-90°)	19.2	0.2			G1/100
BL (0°-30°)	143.9	1.7	B1/500		
BM (30°-60°)	199.7	2.3	B0/220		
BH (60°-80°)	82.5	1.0	B0/110		G0/110
BVH (80°-90°)	0.6	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-G2
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	729.0	729.0	729.0	729.0	729.0	729.0	729.0	729.0	729.0	729.0	729.0
2.5°	1088.3	1063.8	1069.4	1053.6	1025.0	966.3	916.2	868.7	813.4	811.5	765.9
5°	1467.5	1446.7	1444.1	1412.1	1360.1	1260.3	1163.2	1052.5	929.0	919.9	823.2
7.5°	1811.6	1795.1	1789.0	1751.0	1654.2	1557.1	1430.6	1267.9	1074.7	1058.1	900.4
10°	2076.0	2068.1	2069.6	2042.5	1959.6	1869.2	1703.2	1495.7	1240.0	1214.4	993.0
12.5°	2276.3	2278.2	2291.7	2275.2	2228.9	2161.8	1984.5	1738.6	1423.0	1388.0	1098.8
15°	2423.5	2433.0	2457.8	2478.5	2475.1	2417.1	2254.5	1985.2	1617.3	1578.5	1216.7
17.5°	2518.8	2529.4	2565.5	2611.4	2653.6	2640.1	2515.0	2223.2	1813.9	1769.1	1342.8
20°	2602.4	2614.8	2653.6	2714.2	2792.9	2809.9	2727.8	2454.0	2010.1	1955.5	1473.1
22.5°	2783.5	2783.2	2806.9	2842.3	2917.2	2960.9	2908.9	2668.3	2204.0	2147.1	1606.0
25°	3111.1	3098.7	3090.4	3062.6	3079.1	3106.2	3077.2	2868.6	2399.1	2341.4	1740.8
27.5°	3500.5	3508.0	3441.0	3366.1	3308.1	3280.2	3232.8	3054.3	2586.6	2523.3	1872.6
30°	3911.3	3913.6	3834.5	3738.9	3611.2	3505.4	3423.3	3231.6	2779.4	2710.5	2000.7
32.5°	4281.9	4267.2	4188.9	4058.6	3897.4	3778.4	3607.8	3429.7	2983.5	2916.8	2143.0
35°	4575.6	4558.3	4463.0	4344.4	4177.2	4057.4	3852.2	3627.4	3198.1	3133.0	2285.7
37.5°	4790.2	4769.9	4672.0	4550.0	4405.8	4336.1	4135.8	3842.4	3432.3	3362.3	2436.0
40°	4864.8	4847.1	4785.7	4696.5	4580.5	4564.7	4436.6	4089.8	3687.3	3612.7	2606.2
42.5°	4820.3	4803.0	4781.2	4751.1	4702.9	4717.9	4720.6	4371.9	3970.4	3897.0	2794.1
45°	4644.1	4628.7	4651.3	4695.3	4755.2	4829.8	4979.6	4675.0	4286.8	4208.4	3011.4
47.5°	4384.7	4373.4	4435.9	4545.8	4720.9	4926.5	5216.5	4993.6	4641.9	4569.2	3282.5
50°	4015.6	4013.8	4138.8	4339.5	4608.7	4973.2	5461.2	5355.8	5135.1	5058.7	3659.4
52.5°	3441.0	3444.8	3690.7	4011.9	4411.8	4941.6	5618.7	5821.2	5709.0	5629.6	3985.9
55°	2893.9	2916.5	3090.8	3554.0	4109.8	4824.1	5672.9	6038.5	6025.7	5950.4	4167.4
57.5°	2358.0	2399.1	2567.0	2999.7	3668.8	4553.4	5643.1	6132.7	6261.4	6203.8	4406.9
60°	1777.4	1796.2	1989.7	2394.2	3102.9	4059.3	5427.4	6183.9	6583.8	6543.9	4754.4
62.5°	1130.8	1177.9	1349.6	1739.7	2416.0	3373.2	5063.6	6183.1	6987.1	7008.9	5202.9
65°	595.7	650.7	741.8	1078.1	1660.3	2606.9	4516.5	6125.1	7481.9	7512.4	5553.5
67.5°	321.2	337.0	385.2	559.6	962.9	1766.1	3712.5	5838.9	7768.4	7808.7	5602.5
70°	235.0	243.6	261.7	309.5	484.6	1025.7	2709.0	5190.1	7399.0	7384.0	4977.7
72.5°	180.4	193.9	207.5	226.7	278.7	547.5	1686.6	4064.2	5903.7	5804.3	3720.8
75°	142.3	144.6	163.8	181.1	209.0	311.8	749.0	2367.1	3603.3	3368.0	1929.5
77.5°	113.7	115.2	126.5	141.6	167.9	204.8	232.0	931.2	1150.4	1026.5	418.7
80°	67.4	71.2	94.1	109.2	139.3	129.2	84.7	202.2	179.6	162.7	70.4
82.5°	37.7	40.7	53.1	86.2	97.2	61.8	42.2	54.6	42.2	41.0	20.0
85°	0.0	1.9	34.3	53.5	39.5	13.6	17.7	18.1	12.4	11.7	7.9
87.5°	0.0	0.0	10.5	10.2	1.5	2.3	4.1	6.0	4.9	4.9	4.1
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°	729.0	729.0	729.0	729.0	729.0	729.0	729.0	729.0	729.0	729.0	729.0
2.5°	743.3	723.0	684.6	646.9	615.3	589.3	566.0	556.6	549.0	547.9	541.9
5°	776.5	735.4	662.0	601.7	561.5	532.8	508.4	493.3	481.6	477.1	473.0
7.5°	826.5	764.4	659.0	589.7	541.5	493.3	448.1	399.2	368.7	357.0	350.2
10°	887.6	802.8	670.3	586.3	502.0	400.3	325.3	263.2	238.0	229.7	227.4
12.5°	958.7	850.6	689.9	565.2	417.6	284.3	224.4	203.3	197.7	195.1	195.1
15°	1040.4	903.0	703.8	504.2	308.8	215.0	194.3	184.5	178.5	175.1	175.5
17.5°	1124.0	954.2	697.0	415.7	227.8	191.3	175.9	165.3	157.0	153.6	152.9
20°	1208.4	1001.6	659.4	309.5	192.8	173.6	156.3	144.6	136.3	132.9	132.2
22.5°	1295.7	1041.9	593.1	227.1	173.2	154.0	137.1	125.4	117.5	114.5	113.0
25°	1380.8	1074.7	500.4	183.8	154.8	135.6	119.4	108.4	101.3	98.3	97.9
27.5°	1460.3	1095.4	393.1	162.3	138.6	119.0	104.3	94.5	88.5	86.2	85.9
30°	1531.8	1097.3	290.7	146.5	124.3	104.7	91.1	82.5	77.2	74.9	74.2
32.5°	1604.1	1081.5	211.6	132.2	111.1	92.3	79.1	72.3	68.5	66.7	66.7
35°	1672.3	1045.0	164.9	119.7	98.3	80.2	69.7	64.8	62.5	60.6	60.6
37.5°	1739.0	992.6	140.1	108.8	86.2	70.0	61.4	58.4	56.5	54.6	54.6
40°	1806.7	926.7	127.3	98.7	76.4	62.1	54.6	52.0	50.1	48.6	48.2
42.5°	1890.0	850.6	119.0	89.2	67.8	55.0	48.2	45.2	43.7	42.2	41.4
45°	1986.4	785.1	112.2	79.8	60.6	49.0	41.8	38.8	36.5	34.6	34.3
47.5°	2125.3	737.7	103.2	69.7	53.8	42.6	36.1	32.8	29.4	27.5	27.1
50°	2302.7	698.5	91.5	60.6	47.1	36.1	30.1	26.0	23.0	21.1	21.1
52.5°	2390.8	647.3	81.0	52.7	39.5	30.5	24.5	19.6	18.1	16.2	16.2
55°	2426.2	608.1	70.4	44.8	32.8	25.2	19.2	15.1	13.9	12.8	12.4
57.5°	2525.6	596.8	61.4	38.0	27.1	20.0	14.7	11.3	10.5	9.0	9.0
60°	2685.6	602.5	53.1	32.4	21.8	15.4	10.9	8.7	7.9	6.4	6.4
62.5°	2858.5	595.3	44.8	27.9	16.9	11.3	7.5	6.4	6.4	3.8	3.4
65°	2891.6	530.2	38.4	23.0	13.2	8.3	4.9	4.1	5.6	0.8	0.0
67.5°	2683.7	411.2	33.1	17.7	9.8	6.4	3.8	1.9	4.9	0.0	0.0
70°	2146.0	261.3	26.7	12.8	7.5	5.3	3.0	0.8	3.8	0.0	0.0
72.5°	1517.5	151.8	21.1	9.0	6.4	4.1	2.3	0.0	2.3	0.0	0.0
75°	767.4	81.0	13.2	6.8	4.9	3.0	1.5	0.0	0.4	0.0	0.0
77.5°	166.1	37.7	8.3	4.9	3.4	1.9	0.8	0.0	0.0	0.0	0.0
80°	36.1	16.6	5.3	3.0	1.9	1.1	0.0	0.0	0.0	0.0	0.0
82.5°	13.2	8.7	2.6	1.5	0.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	7.2	4.5	1.5	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.8	1.5	0.4	0.4	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)