

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: P321246

Luminaire Tested: **GAN-SA2C-730-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321246
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-SA2C-730-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 1050mA 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: 10638 lumens
Efficiency: N/A
Efficacy: 94.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

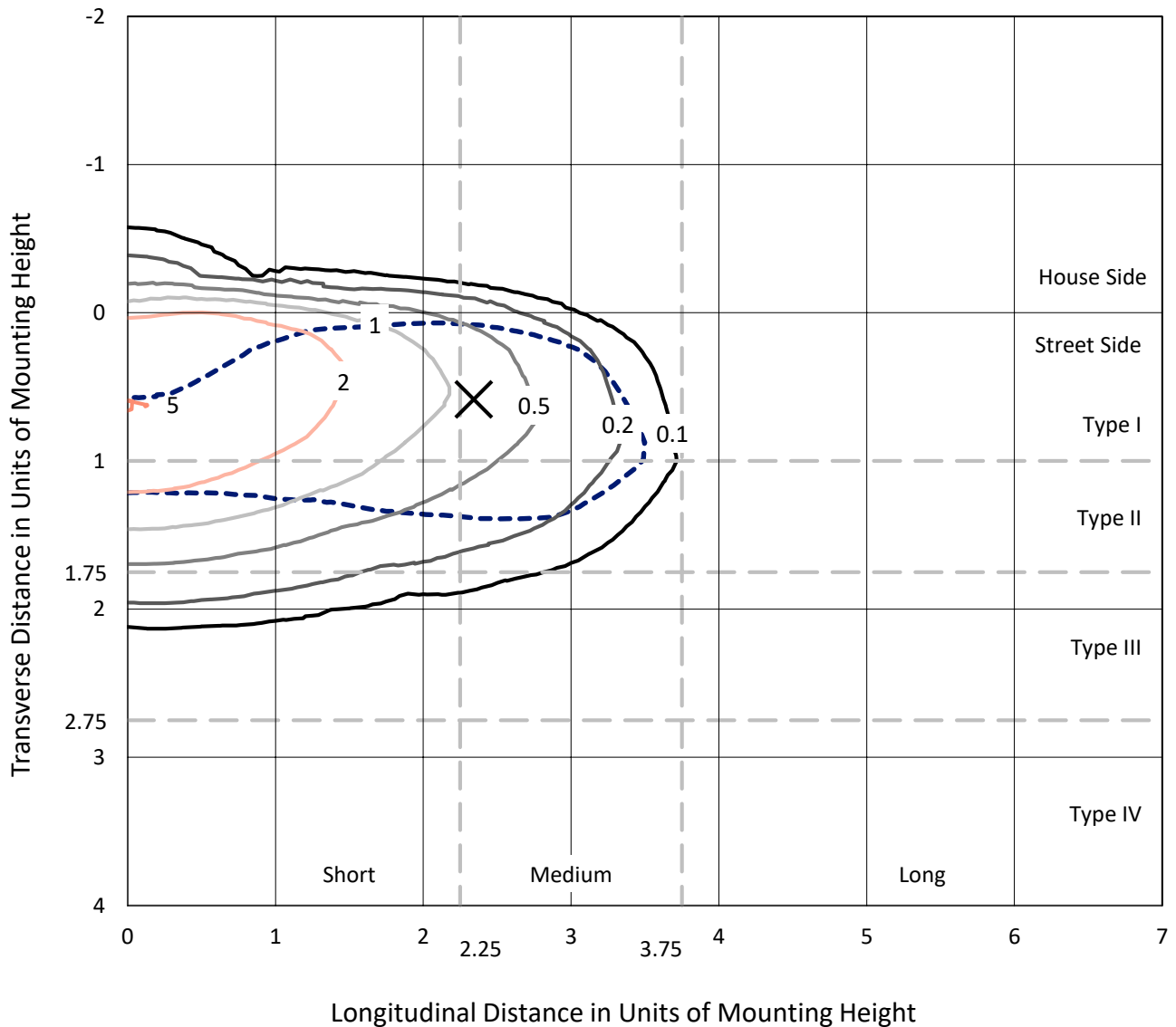
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

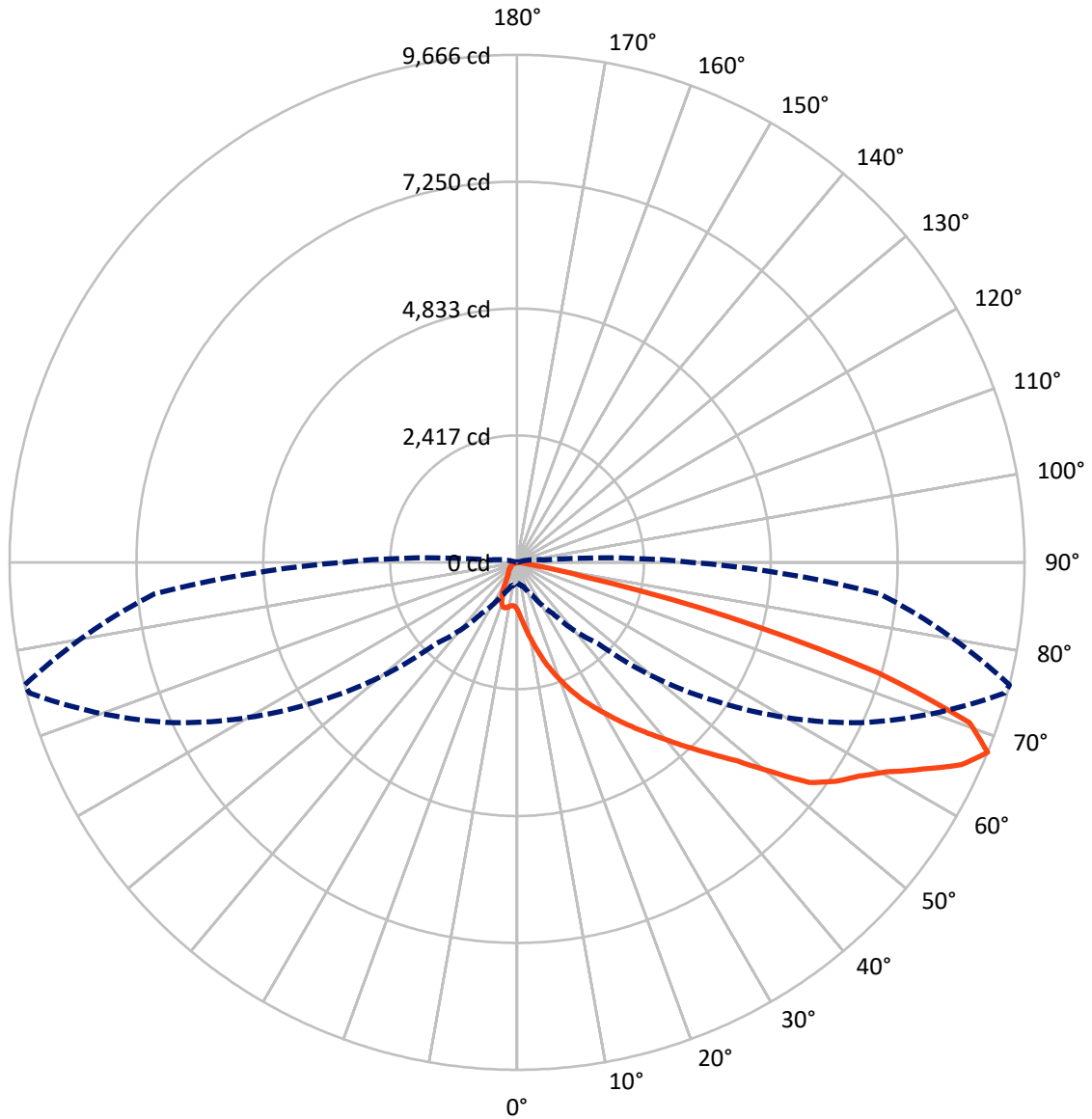
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 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	528.3	0.0	528.3
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	10109.8	0.0	10109.8
	% Fixture	95.0	0.0	95.0
Total	Lumens	10638.0	0.0	10638.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.2	1.1
10°-20°	444.8	4.2
20°-30°	905.1	8.5
30°-40°	1570.9	14.8
40°-50°	2219.5	20.9
50°-60°	2517.0	23.7
60°-70°	2087.7	19.6
70°-80°	756.2	7.1
80°-90°	24.5	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°	10638.0	100.0
0°-180°	10638.0	100.0

Coefficient of Utilization

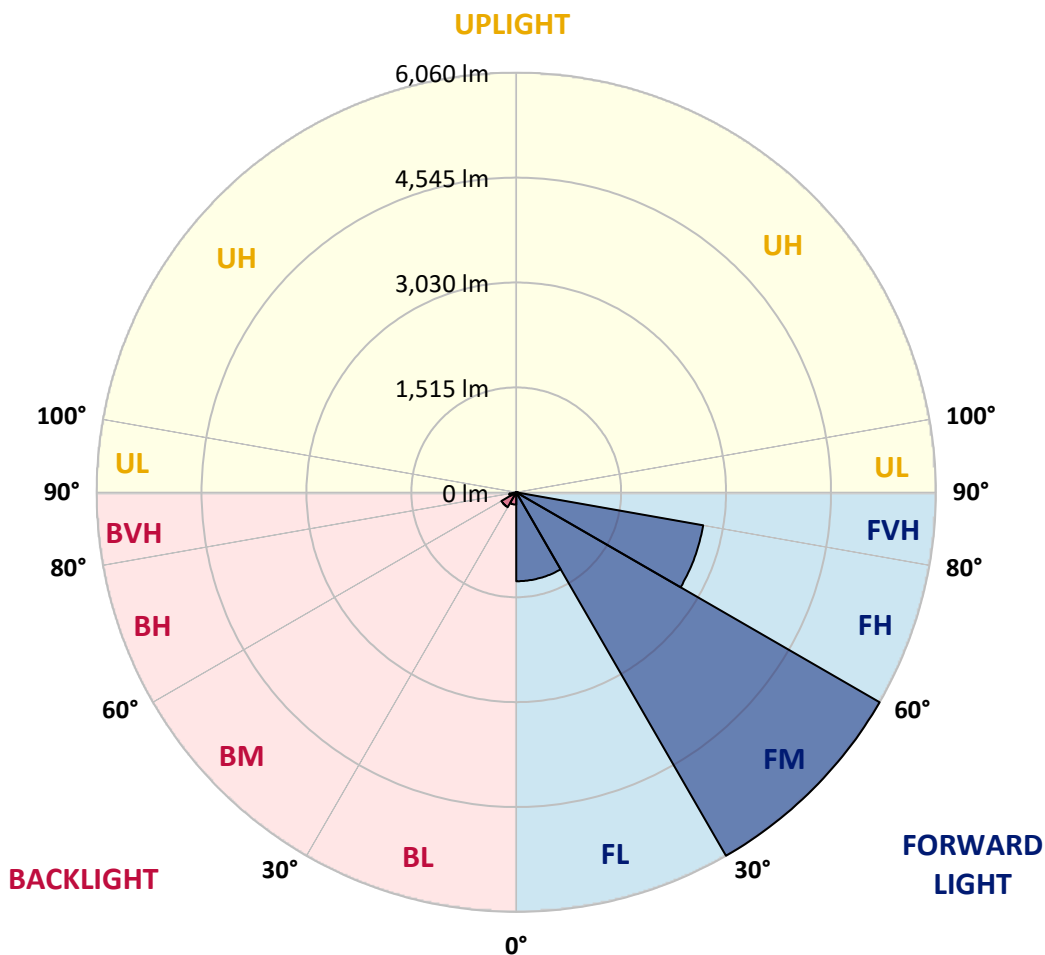


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1284.0	12.1			
FM (30°-60°)	6060.3	57.0			
FH (60°-80°)	2741.8	25.8			G2/5000
FVH (80°-90°)	23.8	0.2			G1/100
BL (0°-30°)	178.2	1.7	B1/500		
BM (30°-60°)	247.2	2.3	B1/1000		
BH (60°-80°)	102.1	1.0	B0/110		G0/110
BVH (80°-90°)	0.8	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°	902.4	902.4	902.4	902.4	902.4	902.4	902.4	902.4	902.4	902.4	902.4
2.5°	1347.1	1316.8	1323.8	1304.2	1268.8	1196.1	1134.1	1075.3	1006.8	1004.5	948.1
5°	1816.5	1790.8	1787.6	1748.0	1683.6	1560.1	1439.8	1302.8	1149.9	1138.7	1018.9
7.5°	2242.5	2222.0	2214.5	2167.5	2047.7	1927.4	1770.8	1569.4	1330.3	1309.8	1114.5
10°	2569.7	2559.9	2561.8	2528.2	2425.7	2313.8	2108.3	1851.4	1534.9	1503.2	1229.2
12.5°	2817.7	2820.0	2836.8	2816.3	2759.0	2676.0	2456.5	2152.1	1761.5	1718.1	1360.1
15°	3000.0	3011.6	3042.4	3068.0	3063.8	2992.0	2790.7	2457.4	2002.0	1954.0	1506.0
17.5°	3117.9	3130.9	3175.7	3232.6	3284.8	3268.0	3113.2	2752.0	2245.3	2189.8	1662.2
20°	3221.4	3236.7	3284.8	3359.8	3457.2	3478.2	3376.6	3037.7	2488.2	2420.6	1823.5
22.5°	3445.6	3445.1	3474.5	3518.3	3611.0	3665.1	3600.8	3302.9	2728.2	2657.8	1988.0
25°	3851.1	3835.7	3825.5	3791.0	3811.5	3845.0	3809.1	3550.9	2969.7	2898.3	2154.9
27.5°	4333.1	4342.4	4259.4	4166.7	4094.9	4060.4	4001.6	3780.7	3201.8	3123.5	2318.0
30°	4841.6	4844.4	4746.5	4628.1	4470.1	4339.1	4237.5	4000.3	3440.4	3355.1	2476.5
32.5°	5300.3	5282.1	5185.1	5023.9	4824.4	4677.1	4465.9	4245.4	3693.1	3610.6	2652.7
35°	5663.8	5642.4	5524.5	5377.6	5170.7	5022.5	4768.4	4490.1	3958.8	3878.1	2829.4
37.5°	5929.5	5904.4	5783.2	5632.1	5453.6	5367.4	5119.4	4756.3	4248.7	4162.0	3015.3
40°	6021.8	5999.9	5923.9	5813.5	5669.9	5650.3	5491.8	5062.5	4564.3	4472.0	3226.0
42.5°	5966.8	5945.4	5918.3	5881.1	5821.4	5840.0	5843.3	5411.7	4914.8	4823.9	3458.6
45°	5748.7	5729.6	5757.5	5812.1	5886.2	5978.5	6164.0	5786.9	5306.3	5209.4	3727.6
47.5°	5427.5	5413.5	5490.9	5627.0	5843.8	6098.3	6457.2	6181.2	5745.9	5655.9	4063.2
50°	4970.7	4968.4	5123.1	5371.6	5704.9	6156.1	6760.2	6629.6	6356.5	6261.9	4529.8
52.5°	4259.4	4264.1	4568.5	4966.1	5461.1	6116.9	6955.0	7205.8	7066.9	6968.5	4933.9
55°	3582.1	3610.1	3825.9	4399.3	5087.2	5971.5	7022.1	7474.7	7458.9	7365.6	5158.6
57.5°	2918.9	2969.7	3177.5	3713.1	4541.4	5636.3	6985.3	7591.2	7750.7	7679.3	5455.0
60°	2200.1	2223.4	2463.0	2963.6	3840.8	5024.8	6718.2	7654.6	8149.7	8100.3	5885.2
62.5°	1399.8	1458.0	1670.6	2153.5	2990.6	4175.5	6267.9	7653.7	8648.9	8675.9	6440.4
65°	737.4	805.5	918.3	1334.5	2055.1	3227.0	5590.7	7581.9	9261.4	9299.1	6874.4
67.5°	397.6	417.2	476.8	692.7	1191.9	2186.1	4595.5	7227.7	9616.1	9666.0	6935.0
70°	290.9	301.6	324.0	383.2	599.9	1269.7	3353.3	6424.5	9158.8	9140.2	6161.7
72.5°	223.3	240.1	256.8	280.6	344.9	677.7	2087.8	5030.8	7307.8	7184.8	4605.7
75°	176.2	179.0	202.8	224.2	258.7	385.9	927.1	2930.0	4460.3	4169.0	2388.4
77.5°	140.8	142.6	156.6	175.3	207.9	253.6	287.1	1152.7	1424.0	1270.6	518.3
80°	83.4	88.1	116.5	135.2	172.5	159.9	104.9	250.3	222.3	201.4	87.2
82.5°	46.6	50.3	65.7	106.7	120.3	76.4	52.2	67.6	52.2	50.8	24.7
85°	0.0	2.3	42.4	66.2	48.9	16.8	21.9	22.4	15.4	14.4	9.8
87.5°	0.0	0.0	13.1	12.6	1.9	2.8	5.1	7.5	6.1	6.1	5.1
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°	902.4	902.4	902.4	902.4	902.4	902.4	902.4	902.4	902.4	902.4	902.4
2.5°	920.1	895.0	847.4	800.8	761.6	729.5	700.6	688.9	679.6	678.2	670.7
5°	961.1	910.3	819.4	744.9	695.0	659.6	629.3	610.6	596.2	590.6	585.4
7.5°	1023.1	946.2	815.7	729.9	670.3	610.6	554.7	494.1	456.3	441.9	433.5
10°	1098.6	993.8	829.7	725.8	621.3	495.5	402.7	325.8	294.6	284.3	281.5
12.5°	1186.7	1053.0	853.9	699.6	516.9	351.9	277.8	251.7	244.7	241.5	241.5
15°	1287.9	1117.8	871.2	624.1	382.2	266.2	240.5	228.4	220.9	216.7	217.2
17.5°	1391.4	1181.2	862.8	514.6	282.0	236.8	217.7	204.6	194.4	190.2	189.2
20°	1495.8	1239.9	816.2	383.2	238.7	214.9	193.4	179.0	168.7	164.5	163.6
22.5°	1603.9	1289.8	734.1	281.1	214.4	190.6	169.7	155.2	145.4	141.7	139.8
25°	1709.3	1330.3	619.5	227.5	191.6	167.8	147.8	134.2	125.4	121.7	121.2
27.5°	1807.6	1355.9	486.6	200.9	171.5	147.3	129.1	117.0	109.5	106.7	106.3
30°	1896.2	1358.3	359.8	181.3	153.8	129.6	112.8	102.1	95.6	92.8	91.8
32.5°	1985.7	1338.7	262.0	163.6	137.5	114.2	97.9	89.5	84.8	82.5	82.5
35°	2070.0	1293.5	204.2	148.2	121.7	99.3	86.2	80.2	77.4	75.0	75.0
37.5°	2152.5	1228.7	173.4	134.7	106.7	86.7	76.0	72.2	69.9	67.6	67.6
40°	2236.4	1147.1	157.5	122.1	94.6	76.9	67.6	64.3	62.0	60.1	59.7
42.5°	2339.5	1053.0	147.3	110.5	83.9	68.1	59.7	55.9	54.1	52.2	51.3
45°	2458.8	971.9	138.9	98.8	75.0	60.6	51.7	48.0	45.2	42.9	42.4
47.5°	2630.8	913.1	127.7	86.2	66.7	52.7	44.7	40.6	36.4	34.0	33.6
50°	2850.3	864.7	113.3	75.0	58.3	44.7	37.3	32.2	28.4	26.1	26.1
52.5°	2959.4	801.3	100.2	65.3	48.9	37.8	30.3	24.2	22.4	20.0	20.0
55°	3003.2	752.8	87.2	55.5	40.6	31.2	23.8	18.6	17.2	15.8	15.4
57.5°	3126.3	738.8	76.0	47.1	33.6	24.7	18.2	14.0	13.1	11.2	11.2
60°	3324.4	745.8	65.7	40.1	27.0	19.1	13.5	10.7	9.8	7.9	7.9
62.5°	3538.3	736.9	55.5	34.5	21.0	14.0	9.3	7.9	7.9	4.7	4.2
65°	3579.3	656.3	47.5	28.4	16.3	10.3	6.1	5.1	7.0	0.9	0.0
67.5°	3322.0	509.0	41.0	21.9	12.1	7.9	4.7	2.3	6.1	0.0	0.0
70°	2656.4	323.5	33.1	15.8	9.3	6.5	3.7	0.9	4.7	0.0	0.0
72.5°	1878.5	187.8	26.1	11.2	7.9	5.1	2.8	0.0	2.8	0.0	0.0
75°	950.0	100.2	16.3	8.4	6.1	3.7	1.9	0.0	0.5	0.0	0.0
77.5°	205.6	46.6	10.3	6.1	4.2	2.3	0.9	0.0	0.0	0.0	0.0
80°	44.7	20.5	6.5	3.7	2.3	1.4	0.0	0.0	0.0	0.0	0.0
82.5°	16.3	10.7	3.3	1.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	8.9	5.6	1.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.7	1.9	0.5	0.5	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)