

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: P321285

Luminaire Tested: **GAN-SA1C-740-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321285
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-SA1C-740-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5978 lumens
Efficiency: N/A
Efficacy: 101.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B0 - U0 - G1

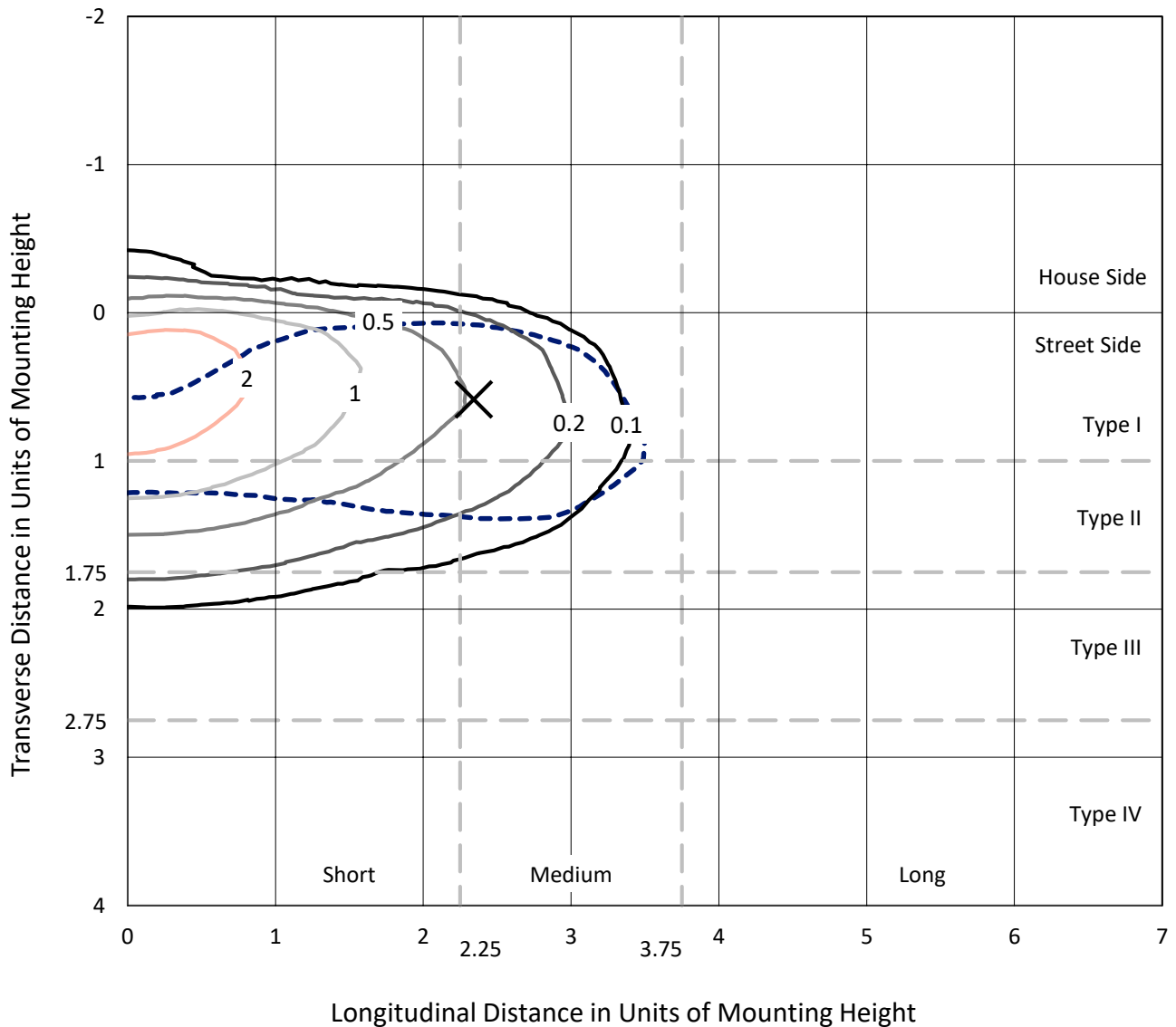
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

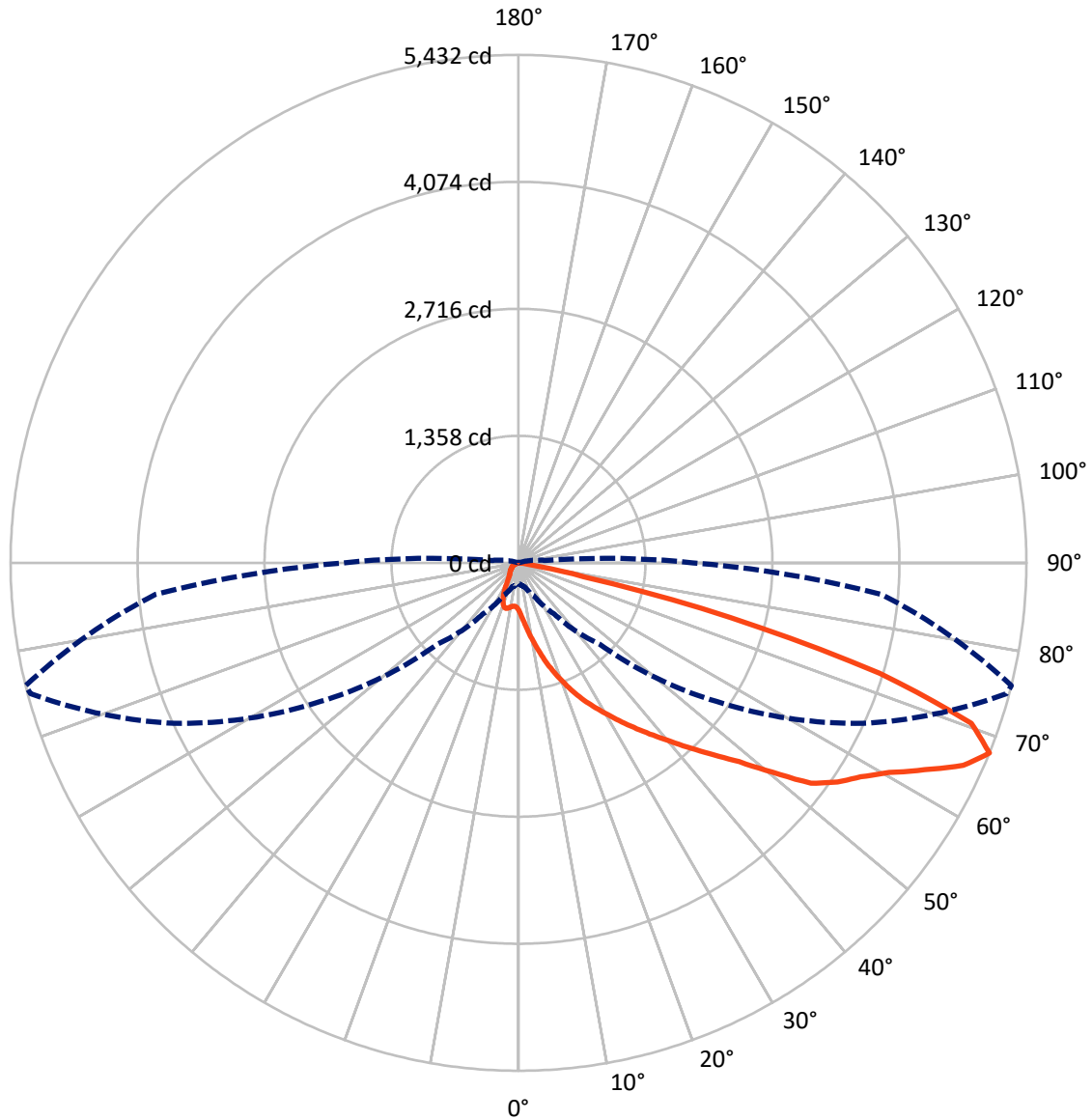
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 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	296.9	0.0	296.9
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	5681.2	0.0	5681.2
	% Fixture	95.0	0.0	95.0
Total	Lumens	5978.0	0.0	5978.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.1	1.1
10°-20°	250.0	4.2
20°-30°	508.6	8.5
30°-40°	882.8	14.8
40°-50°	1247.3	20.9
50°-60°	1414.5	23.7
60°-70°	1173.2	19.6
70°-80°	425.0	7.1
80°-90°	13.8	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°	5978.0	100.0
0°-180°	5978.0	100.0

Coefficient of Utilization

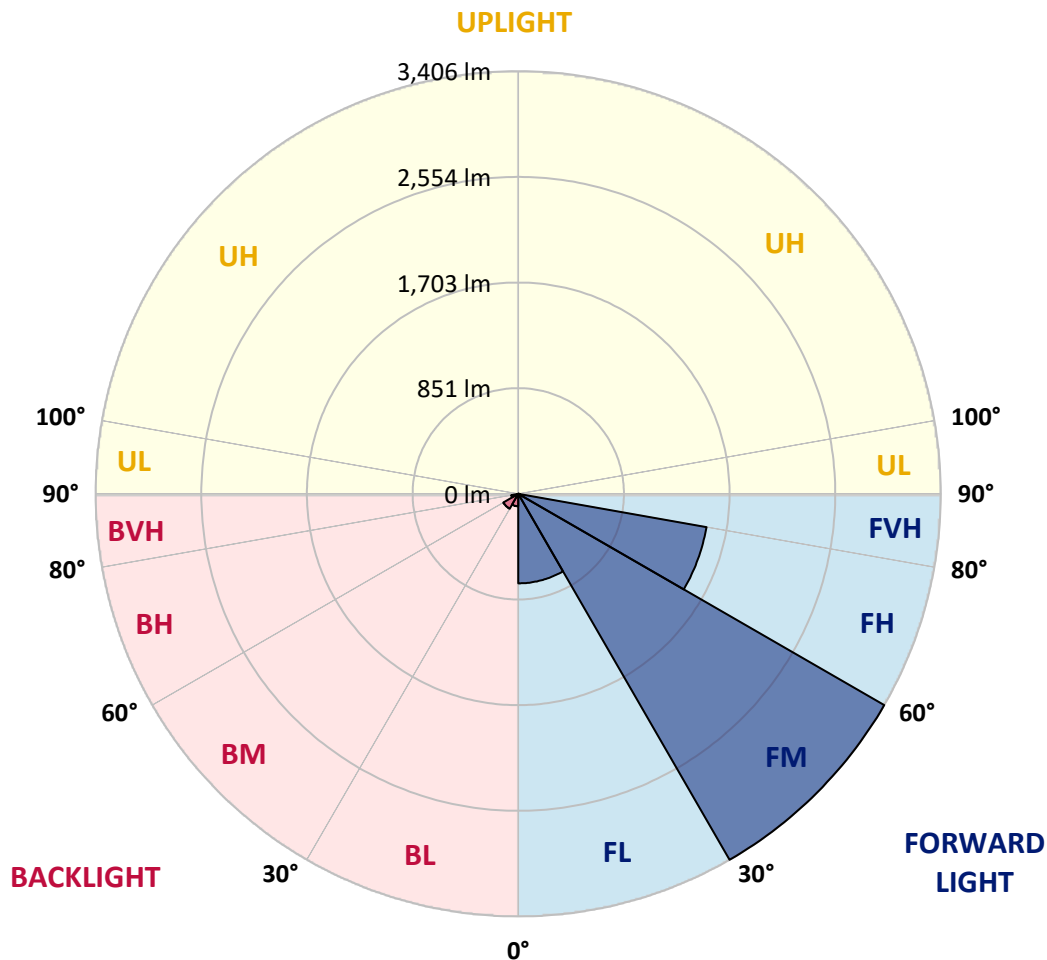


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	721.5	12.1			
FM (30°-60°)	3405.5	57.0			
FH (60°-80°)	1540.7	25.8			G1/1800
FVH (80°-90°)	13.3	0.2			G1/100
BL (0°-30°)	100.1	1.7	B0/110		
BM (30°-60°)	138.9	2.3	B0/220		
BH (60°-80°)	57.4	1.0	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: B0-U0-G1
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	507.1	507.1	507.1	507.1	507.1	507.1	507.1	507.1	507.1	507.1	507.1
2.5°	757.0	740.0	743.9	732.9	713.0	672.1	637.3	604.3	565.8	564.5	532.8
5°	1020.8	1006.4	1004.5	982.3	946.1	876.7	809.1	732.1	646.2	639.9	572.6
7.5°	1260.2	1248.6	1244.5	1218.0	1150.7	1083.1	995.1	881.9	747.6	736.0	626.3
10°	1444.1	1438.6	1439.6	1420.7	1363.1	1300.2	1184.7	1040.4	862.6	844.7	690.7
12.5°	1583.4	1584.7	1594.1	1582.6	1550.4	1503.8	1380.4	1209.4	989.9	965.5	764.3
15°	1685.8	1692.4	1709.7	1724.1	1721.7	1681.4	1568.2	1380.9	1125.0	1098.0	846.3
17.5°	1752.1	1759.4	1784.6	1816.5	1845.9	1836.4	1749.5	1546.5	1261.7	1230.6	934.1
20°	1810.2	1818.9	1845.9	1888.0	1942.8	1954.6	1897.5	1707.0	1398.2	1360.2	1024.7
22.5°	1936.2	1936.0	1952.5	1977.1	2029.2	2059.6	2023.5	1856.1	1533.1	1493.6	1117.2
25°	2164.1	2155.5	2149.7	2130.3	2141.8	2160.7	2140.5	1995.4	1668.8	1628.7	1210.9
27.5°	2435.0	2440.2	2393.6	2341.4	2301.1	2281.7	2248.7	2124.6	1799.2	1755.2	1302.6
30°	2720.7	2722.3	2667.3	2600.8	2512.0	2438.4	2381.3	2247.9	1933.3	1885.4	1391.7
32.5°	2978.5	2968.3	2913.8	2823.1	2711.0	2628.3	2509.6	2385.7	2075.3	2029.0	1490.7
35°	3182.8	3170.7	3104.5	3022.0	2905.7	2822.4	2679.6	2523.2	2224.6	2179.3	1589.9
37.5°	3332.1	3317.9	3249.8	3165.0	3064.6	3016.2	2876.8	2672.8	2387.5	2338.8	1694.5
40°	3383.9	3371.6	3328.9	3266.9	3186.2	3175.2	3086.1	2844.9	2564.9	2513.0	1812.9
42.5°	3353.0	3341.0	3325.8	3304.8	3271.3	3281.8	3283.6	3041.1	2761.9	2710.8	1943.6
45°	3230.5	3219.7	3235.4	3266.1	3307.7	3359.6	3463.8	3251.9	2981.9	2927.4	2094.7
47.5°	3050.0	3042.1	3085.6	3162.1	3283.9	3426.9	3628.6	3473.5	3228.9	3178.3	2283.3
50°	2793.3	2792.0	2878.9	3018.5	3205.8	3459.4	3798.9	3725.5	3572.0	3518.8	2545.5
52.5°	2393.6	2396.2	2567.2	2790.7	3068.8	3437.4	3908.3	4049.3	3971.2	3915.9	2772.6
55°	2013.0	2028.7	2150.0	2472.1	2858.8	3355.7	3946.1	4200.4	4191.5	4139.1	2898.8
57.5°	1640.2	1668.8	1785.6	2086.6	2552.0	3167.3	3925.4	4265.9	4355.5	4315.4	3065.4
60°	1236.3	1249.4	1384.1	1665.4	2158.4	2823.7	3775.3	4301.5	4579.7	4551.9	3307.2
62.5°	786.6	819.3	938.8	1210.1	1680.6	2346.4	3522.2	4301.0	4860.2	4875.4	3619.2
65°	414.4	452.6	516.0	749.9	1154.9	1813.4	3141.7	4260.6	5204.4	5225.6	3863.0
67.5°	223.4	234.4	268.0	389.2	669.8	1228.5	2582.4	4061.6	5403.7	5431.8	3897.1
70°	163.4	169.5	182.0	215.3	337.1	713.5	1884.4	3610.3	5146.8	5136.3	3462.5
72.5°	125.5	134.9	144.3	157.7	193.8	380.9	1173.2	2827.1	4106.6	4037.5	2588.2
75°	99.0	100.6	113.9	126.0	145.4	216.9	521.0	1646.5	2506.5	2342.8	1342.2
77.5°	79.1	80.2	88.0	98.5	116.8	142.5	161.4	647.8	800.2	714.0	291.3
80°	46.9	49.5	65.5	76.0	96.9	89.8	58.9	140.7	124.9	113.2	49.0
82.5°	26.2	28.3	36.9	60.0	67.6	43.0	29.3	38.0	29.3	28.6	13.9
85°	0.0	1.3	23.8	37.2	27.5	9.4	12.3	12.6	8.6	8.1	5.5
87.5°	0.0	0.0	7.3	7.1	1.0	1.6	2.9	4.2	3.4	3.4	2.9
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°	507.1	507.1	507.1	507.1	507.1	507.1	507.1	507.1	507.1	507.1	507.1
2.5°	517.1	502.9	476.2	450.0	428.0	409.9	393.7	387.1	381.9	381.1	376.9
5°	540.1	511.6	460.5	418.6	390.5	370.6	353.6	343.1	335.0	331.9	329.0
7.5°	574.9	531.7	458.4	410.2	376.7	343.1	311.7	277.7	256.4	248.3	243.6
10°	617.4	558.4	466.2	407.8	349.2	278.4	226.3	183.1	165.5	159.8	158.2
12.5°	666.9	591.7	479.9	393.2	290.5	197.8	156.1	141.4	137.5	135.7	135.7
15°	723.7	628.1	489.6	350.7	214.8	149.6	135.2	128.3	124.2	121.8	122.1
17.5°	781.9	663.7	484.8	289.2	158.5	133.1	122.3	115.0	109.2	106.9	106.3
20°	840.6	696.7	458.6	215.3	134.1	120.8	108.7	100.6	94.8	92.5	91.9
22.5°	901.3	724.8	412.5	157.9	120.5	107.1	95.3	87.2	81.7	79.6	78.6
25°	960.5	747.6	348.1	127.8	107.7	94.3	83.0	75.4	70.5	68.4	68.1
27.5°	1015.8	762.0	273.5	112.9	96.4	82.8	72.6	65.7	61.6	60.0	59.7
30°	1065.6	763.3	202.2	101.9	86.4	72.8	63.4	57.4	53.7	52.1	51.6
32.5°	1115.8	752.3	147.2	91.9	77.3	64.2	55.0	50.3	47.7	46.4	46.4
35°	1163.3	726.9	114.7	83.3	68.4	55.8	48.5	45.1	43.5	42.2	42.2
37.5°	1209.6	690.5	97.4	75.7	60.0	48.7	42.7	40.6	39.3	38.0	38.0
40°	1256.8	644.6	88.5	68.6	53.2	43.2	38.0	36.1	34.8	33.8	33.5
42.5°	1314.7	591.7	82.8	62.1	47.1	38.2	33.5	31.4	30.4	29.3	28.8
45°	1381.7	546.1	78.1	55.5	42.2	34.1	29.1	27.0	25.4	24.1	23.8
47.5°	1478.4	513.1	71.8	48.5	37.5	29.6	25.1	22.8	20.4	19.1	18.9
50°	1601.7	485.9	63.7	42.2	32.7	25.1	21.0	18.1	16.0	14.7	14.7
52.5°	1663.0	450.3	56.3	36.7	27.5	21.2	17.0	13.6	12.6	11.3	11.3
55°	1687.7	423.0	49.0	31.2	22.8	17.5	13.4	10.5	9.7	8.9	8.6
57.5°	1756.8	415.2	42.7	26.5	18.9	13.9	10.2	7.9	7.3	6.3	6.3
60°	1868.1	419.1	36.9	22.5	15.2	10.7	7.6	6.0	5.5	4.5	4.5
62.5°	1988.4	414.1	31.2	19.4	11.8	7.9	5.2	4.5	4.5	2.6	2.4
65°	2011.4	368.8	26.7	16.0	9.2	5.8	3.4	2.9	3.9	0.5	0.0
67.5°	1866.8	286.0	23.1	12.3	6.8	4.5	2.6	1.3	3.4	0.0	0.0
70°	1492.8	181.8	18.6	8.9	5.2	3.7	2.1	0.5	2.6	0.0	0.0
72.5°	1055.6	105.6	14.7	6.3	4.5	2.9	1.6	0.0	1.6	0.0	0.0
75°	533.8	56.3	9.2	4.7	3.4	2.1	1.0	0.0	0.3	0.0	0.0
77.5°	115.5	26.2	5.8	3.4	2.4	1.3	0.5	0.0	0.0	0.0	0.0
80°	25.1	11.5	3.7	2.1	1.3	0.8	0.0	0.0	0.0	0.0	0.0
82.5°	9.2	6.0	1.8	1.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	5.0	3.1	1.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.6	1.0	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)