

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: P324786

Luminaire Tested: **GAN-SA2A-740-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324786
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-SA2A-740-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7806 lumens
Efficiency: N/A
Efficacy: 118.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

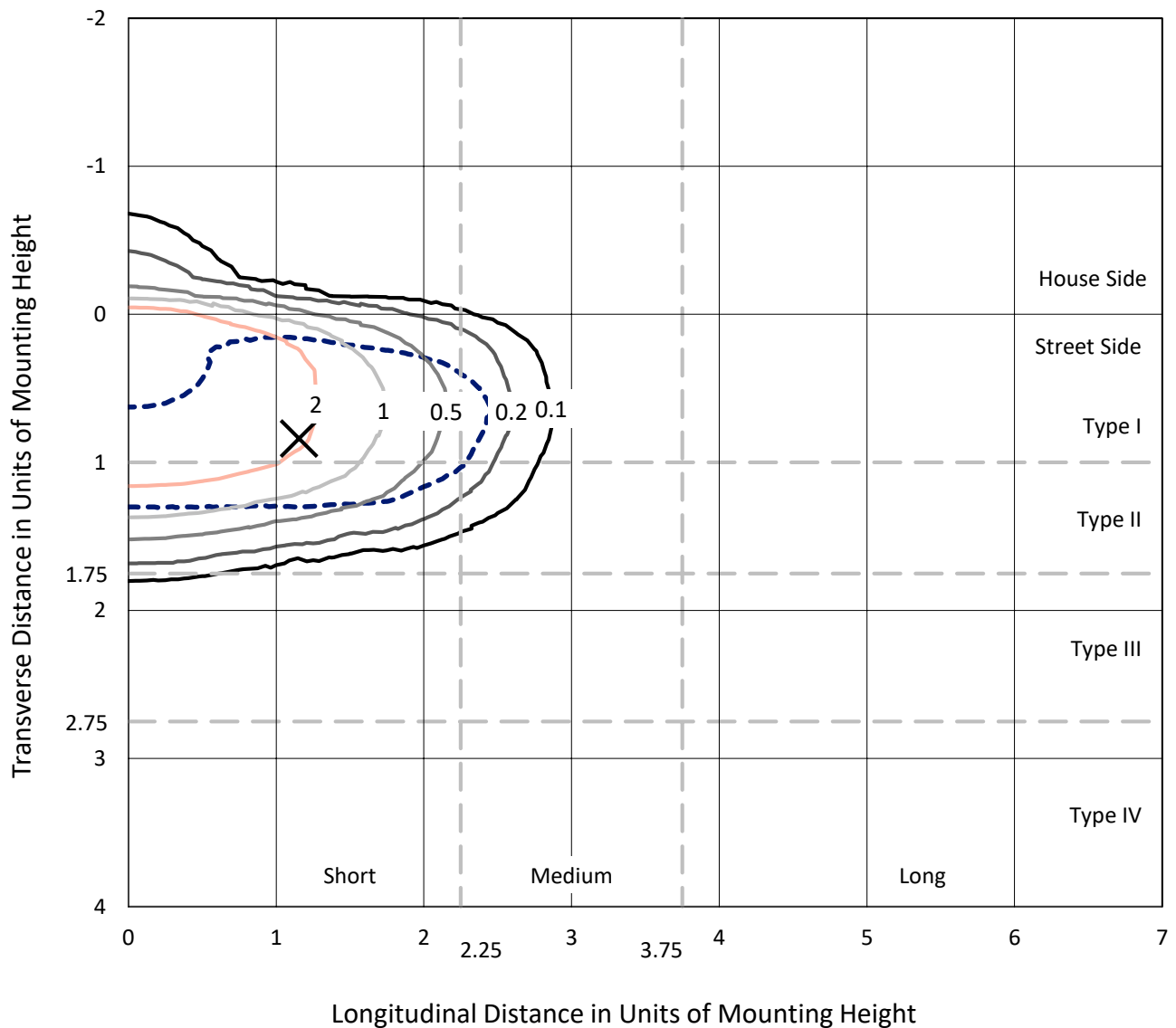
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

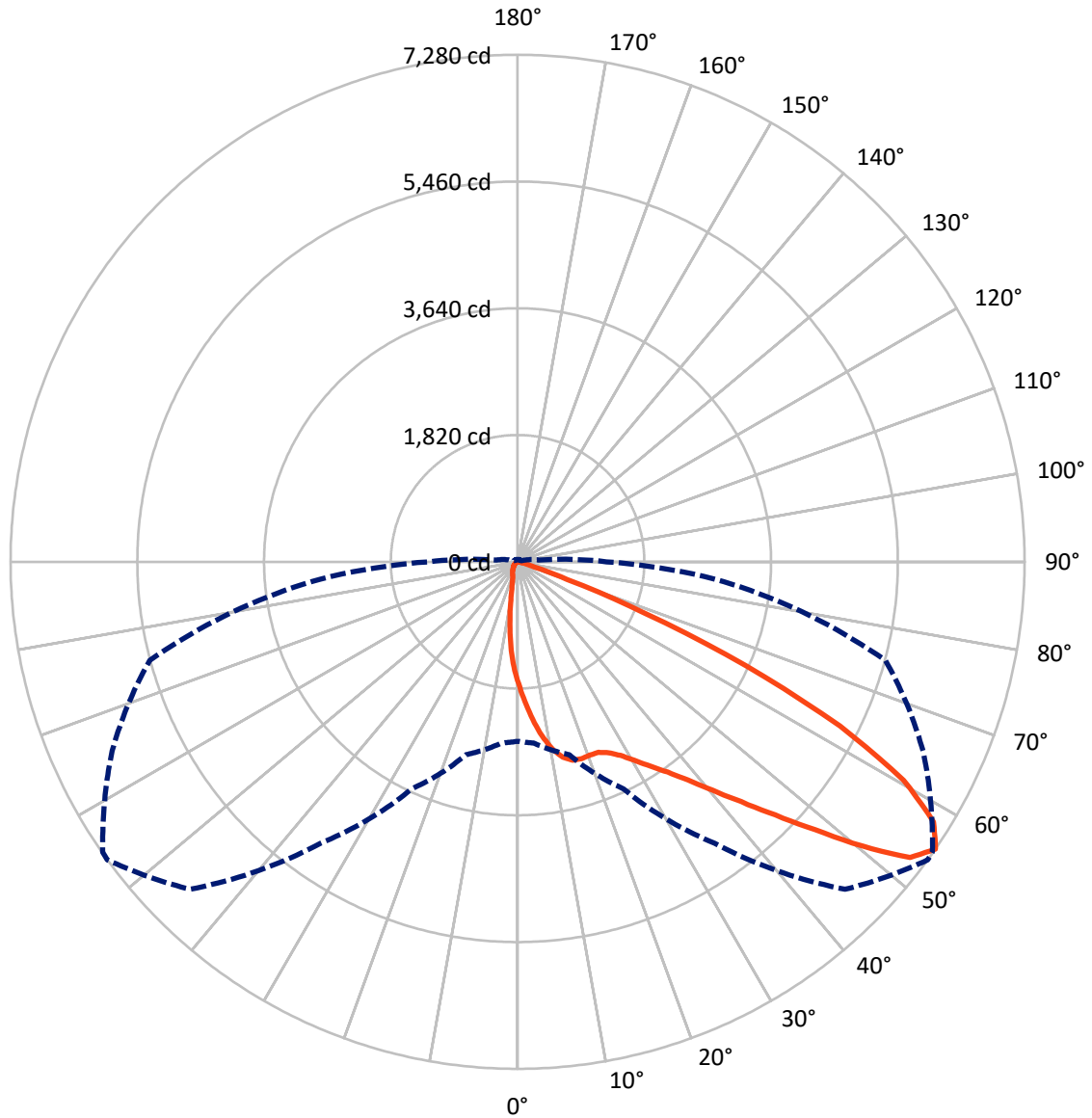
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 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	389.5	0.0	389.5
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	7416.5	0.0	7416.5
	% Fixture	95.0	0.0	95.0
Total	Lumens	7806.0	0.0	7806.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.0	2.1
10°-20°	441.5	5.7
20°-30°	753.8	9.7
30°-40°	1209.8	15.5
40°-50°	1933.2	24.8
50°-60°	2071.5	26.5
60°-70°	1063.6	13.6
70°-80°	161.1	2.1
80°-90°	10.5	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°	7806.0	100.0
0°-180°	7806.0	100.0

Coefficient of Utilization



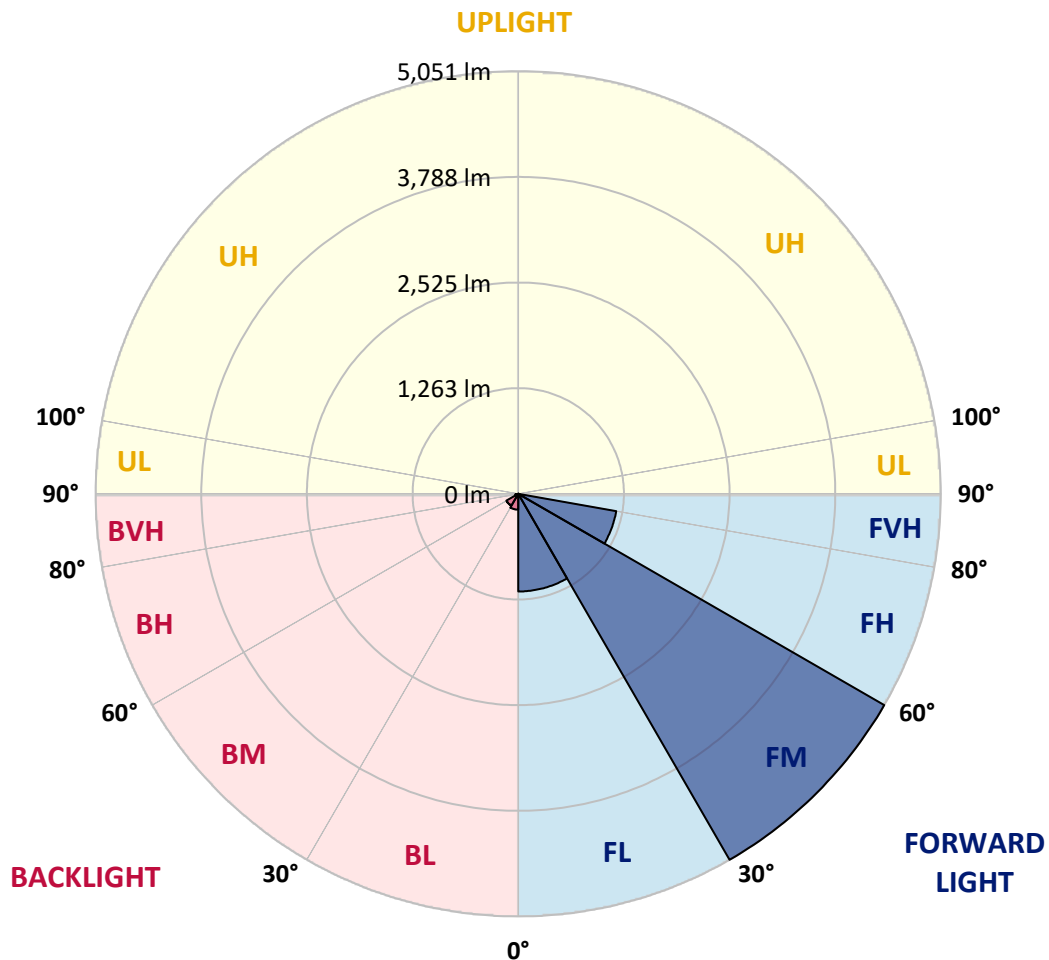
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1166.9	14.9			
FM (30°-60°)	5050.8	64.7			
FH (60°-80°)	1188.8	15.2			G1/1800
FVH (80°-90°)	10.1	0.1			G1/100
BL (0°-30°)	189.5	2.4	B1/500		
BM (30°-60°)	163.7	2.1	B0/220		
BH (60°-80°)	35.9	0.5	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: 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°	1748.2	1748.2	1748.2	1748.2	1748.2	1748.2	1748.2	1748.2	1748.2	1748.2	1748.2
2.5°	2193.9	2161.2	2162.2	2147.4	2093.1	2050.6	2006.5	1996.0	1927.2	1855.1	1785.6
5°	2573.1	2549.2	2543.5	2514.8	2439.3	2359.4	2273.8	2253.9	2119.4	1971.7	1826.4
7.5°	2768.0	2768.3	2763.6	2753.1	2705.9	2628.4	2523.9	2503.0	2320.0	2098.5	1868.9
10°	2711.3	2724.2	2750.4	2785.2	2821.2	2811.5	2732.9	2714.0	2515.1	2232.7	1916.1
12.5°	2579.2	2580.9	2610.2	2667.2	2771.0	2877.5	2878.9	2872.5	2701.6	2372.9	1968.0
15°	2513.5	2519.9	2530.7	2567.4	2665.8	2836.4	2958.4	2967.5	2872.5	2521.9	2023.3
17.5°	2556.6	2565.7	2556.6	2561.0	2618.0	2771.3	2972.3	2995.5	3021.8	2669.2	2075.6
20°	2673.6	2682.0	2665.8	2648.0	2659.1	2752.5	2962.5	2993.8	3138.8	2800.0	2119.4
22.5°	2831.4	2834.7	2810.1	2780.8	2772.7	2816.5	2970.6	3002.9	3232.5	2918.3	2147.0
25°	3005.0	3008.0	2977.3	2943.6	2924.4	2942.3	3037.0	3061.3	3315.1	3031.3	2162.9
27.5°	3194.1	3196.8	3158.3	3116.9	3094.6	3095.3	3146.5	3172.5	3403.1	3160.0	2175.7
30°	3394.0	3392.6	3357.2	3299.6	3271.3	3270.6	3304.3	3330.6	3530.5	3325.2	2193.2
32.5°	3618.5	3615.8	3565.6	3494.1	3462.1	3466.8	3496.8	3512.0	3688.6	3501.2	2224.6
35°	3914.1	3906.4	3830.5	3741.9	3682.9	3681.2	3706.5	3718.6	3890.2	3714.2	2276.8
37.5°	4297.8	4290.7	4187.9	4059.1	3976.2	3945.1	3975.2	3990.7	4177.8	3987.6	2360.8
40°	4676.0	4668.9	4607.9	4489.9	4362.1	4287.6	4311.2	4327.8	4536.8	4319.3	2466.6
42.5°	4936.9	4943.0	4964.2	4974.0	4854.3	4697.9	4708.7	4725.9	4914.0	4674.0	2587.6
45°	5005.7	5018.8	5138.8	5374.5	5419.3	5297.3	5184.4	5193.8	5297.3	5028.6	2708.6
47.5°	4799.0	4823.3	5054.9	5493.1	5872.7	5959.0	5745.3	5732.8	5665.1	5315.5	2794.6
50°	4329.4	4351.7	4651.7	5300.0	6010.3	6590.8	6417.5	6380.7	5987.7	5487.1	2824.9
52.5°	3649.8	3676.8	3920.5	4691.8	5751.0	6872.6	7053.9	7023.3	6224.3	5500.6	2830.0
55°	2577.5	2610.2	2868.1	3595.9	4929.5	6648.4	7279.5	7270.4	6420.9	5464.8	2840.8
57.5°	1448.5	1472.1	1750.3	2305.1	3610.4	5790.8	7043.8	7104.2	6539.5	5402.8	2857.0
60°	643.2	649.6	793.5	1147.5	2113.7	4425.5	6369.3	6471.1	6437.7	5319.9	2884.3
62.5°	356.7	351.3	351.3	477.0	918.6	2739.7	5193.8	5362.0	6003.2	5221.8	2885.6
65°	279.5	274.4	259.9	261.9	349.9	1215.9	3596.6	3895.6	5177.9	4934.2	2788.5
67.5°	237.0	232.6	218.1	212.4	217.4	401.2	1976.1	2286.6	3929.0	4186.9	2415.4
70°	200.2	197.2	189.8	182.7	169.9	198.2	756.1	967.2	2421.1	2785.2	1648.8
72.5°	161.1	159.8	162.5	156.4	140.9	132.1	258.6	313.2	1087.5	1242.9	679.3
75°	138.9	138.2	139.6	133.5	116.0	92.0	131.5	143.6	306.8	304.1	137.5
77.5°	90.3	91.4	115.6	112.9	99.8	61.4	68.1	73.5	93.0	69.8	41.8
80°	57.6	57.0	58.7	93.7	89.7	46.9	34.0	35.7	44.8	34.4	20.2
82.5°	35.1	34.4	38.4	43.8	45.2	32.7	20.9	21.2	28.0	22.2	10.8
85°	3.0	4.0	23.3	21.6	15.5	10.1	10.1	10.8	14.8	13.1	6.1
87.5°	0.0	0.0	4.0	6.1	3.4	3.7	3.7	4.0	5.7	5.7	3.0
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°	1748.2	1748.2	1748.2	1748.2	1748.2	1748.2	1748.2	1748.2	1748.2	1748.2	1748.2
2.5°	1749.6	1714.5	1643.7	1575.6	1518.0	1462.4	1399.0	1336.3	1307.0	1295.2	1283.0
5°	1752.6	1680.5	1534.5	1387.5	1235.2	1098.0	981.0	861.0	801.0	774.7	762.5
7.5°	1756.7	1646.8	1410.8	1164.0	918.6	732.5	570.0	465.5	420.4	413.3	395.8
10°	1757.3	1606.0	1267.2	917.3	615.9	441.6	339.8	285.9	266.0	262.6	256.9
12.5°	1758.7	1557.8	1107.7	679.3	410.6	295.3	245.8	227.9	222.5	222.2	222.2
15°	1762.7	1507.2	942.2	489.5	295.0	234.0	215.7	208.7	206.6	207.7	207.3
17.5°	1762.7	1447.5	779.7	364.7	238.3	210.4	200.2	195.5	194.8	195.9	196.2
20°	1749.9	1375.1	630.7	283.8	211.4	195.2	186.1	181.7	180.0	180.7	181.0
22.5°	1719.2	1286.1	509.4	235.0	193.5	181.4	171.6	164.8	162.1	162.5	162.5
25°	1671.4	1180.5	398.5	203.3	179.0	166.5	155.1	147.3	145.6	145.3	146.0
27.5°	1610.0	1063.9	317.2	179.0	161.8	150.0	138.6	132.1	130.8	131.1	131.5
30°	1549.7	942.9	250.1	158.4	142.6	131.5	122.7	119.7	119.7	120.7	121.0
32.5°	1494.4	826.6	197.9	140.6	125.4	115.3	110.2	109.9	111.6	112.3	112.6
35°	1446.9	719.0	163.8	126.8	111.9	103.2	101.5	102.8	104.8	106.2	106.5
37.5°	1413.1	623.0	143.3	115.3	101.5	94.4	94.1	96.7	99.4	102.5	103.2
40°	1399.0	541.7	129.1	105.2	93.0	87.6	86.6	90.3	95.4	99.8	100.5
42.5°	1387.2	475.3	117.0	95.4	86.3	78.5	78.2	82.9	89.0	93.4	94.4
45°	1377.1	422.1	105.9	85.0	77.5	67.4	68.4	74.5	79.2	83.9	85.0
47.5°	1356.2	378.2	93.7	73.8	64.1	57.6	59.7	65.1	68.8	75.8	76.9
50°	1318.8	342.5	81.2	60.3	52.3	49.9	52.9	56.6	61.4	67.4	68.1
52.5°	1293.5	315.5	70.5	50.6	43.1	43.8	46.9	48.2	50.9	53.3	52.6
55°	1279.0	300.7	61.7	43.8	36.7	38.8	39.4	37.8	36.4	34.0	33.0
57.5°	1277.3	287.2	54.9	38.1	32.4	33.4	31.0	25.3	20.6	17.9	17.2
60°	1274.6	270.7	49.6	32.0	28.7	27.3	22.2	13.8	9.8	9.1	9.1
62.5°	1245.3	245.1	45.5	27.0	24.3	20.6	12.8	6.4	5.4	5.7	5.7
65°	1151.9	209.3	41.5	21.9	19.2	14.8	6.4	3.7	2.0	2.4	2.4
67.5°	979.3	166.9	37.1	16.9	14.5	9.4	3.7	1.7	0.0	0.0	0.0
70°	655.7	103.5	31.4	11.8	9.4	5.7	2.7	0.3	0.0	0.0	0.0
72.5°	251.5	56.0	25.3	7.1	6.1	4.0	1.7	0.0	0.0	0.0	0.0
75°	56.6	36.7	17.5	5.1	4.4	2.7	0.7	0.0	0.0	0.0	0.0
77.5°	21.6	26.6	10.1	3.4	3.0	1.7	0.0	0.0	0.0	0.0	0.0
80°	10.5	15.8	4.7	2.0	1.7	0.7	0.0	0.0	0.0	0.0	0.0
82.5°	5.4	6.1	2.0	1.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	3.0	3.0	1.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.7	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)