

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: P321215

Luminaire Tested: **GAN-SA1D-727-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321215
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-SA1D-727-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 1200mA 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: 5482 lumens
Efficiency: N/A
Efficacy: 81.8 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

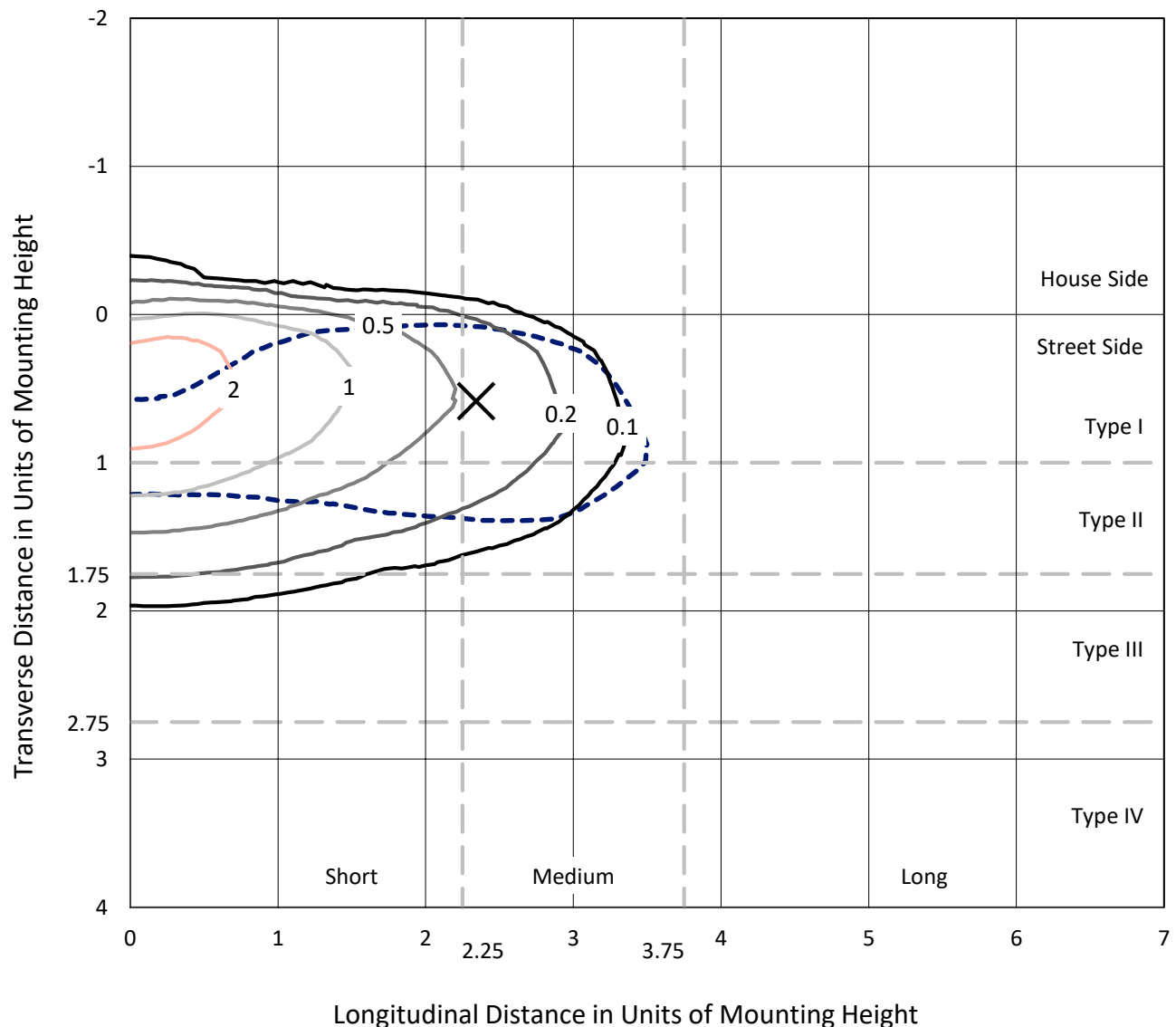
Input Watts (W): 67
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

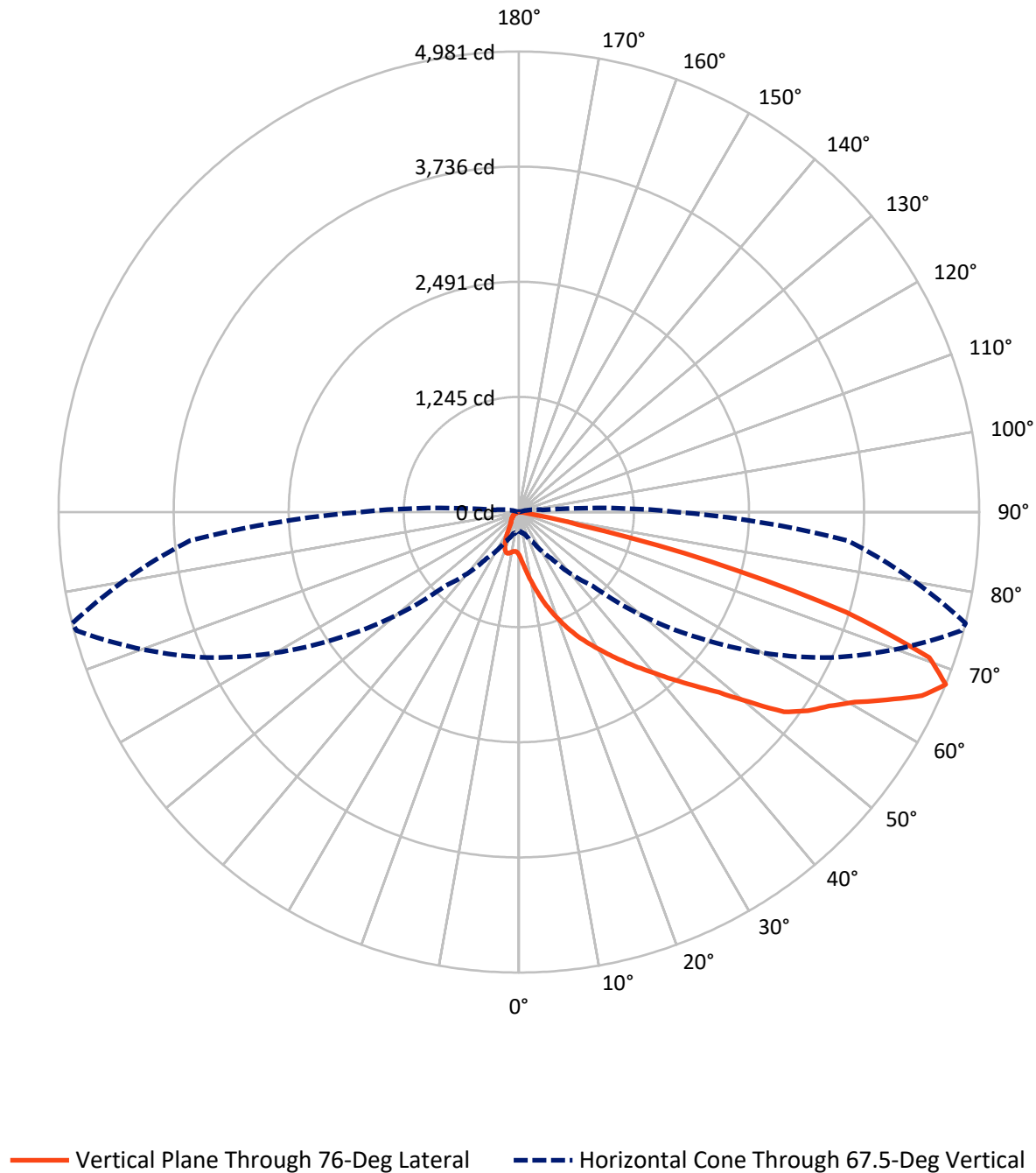
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	272.2	0.0	272.2
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	5209.8	0.0	5209.8
	% Fixture	95.0	0.0	95.0
Total	Lumens	5482.0	0.0	5482.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.8	1.1
10°-20°	229.2	4.2
20°-30°	466.4	8.5
30°-40°	809.5	14.8
40°-50°	1143.8	20.9
50°-60°	1297.1	23.7
60°-70°	1075.8	19.6
70°-80°	389.7	7.1
80°-90°	12.6	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°	5482.0	100.0
0°-180°	5482.0	100.0

Coefficient of Utilization



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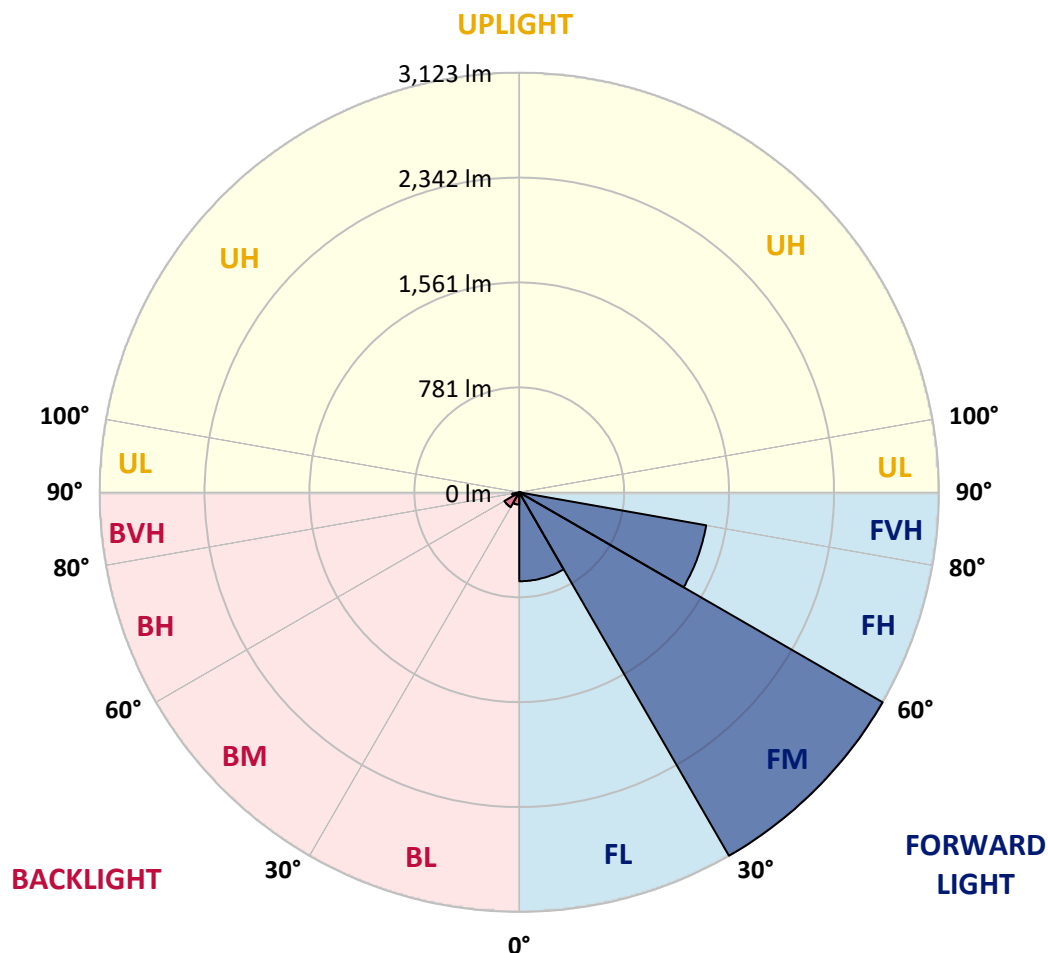
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	661.7	12.1			
FM	(30°-60°)	3123.0	57.0			
FH	(60°-80°)	1412.9	25.8			G1/1800
FVH	(80°-90°)	12.2	0.2			G1/100
BL	(0°-30°)	91.8	1.7	B0/110		
BM	(30°-60°)	127.4	2.3	B0/220		
BH	(60°-80°)	52.6	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°	465.0	465.0	465.0	465.0	465.0	465.0	465.0	465.0	465.0	465.0	465.0
2.5°	694.2	678.6	682.2	672.1	653.8	616.4	584.4	554.1	518.8	517.6	488.6
5°	936.1	922.9	921.2	900.8	867.6	804.0	742.0	671.4	592.6	586.8	525.1
7.5°	1155.6	1145.0	1141.2	1116.9	1055.2	993.2	912.5	808.8	685.5	675.0	574.3
10°	1324.2	1319.2	1320.2	1302.9	1250.0	1192.4	1086.4	954.1	791.0	774.7	633.4
12.5°	1452.0	1453.2	1461.9	1451.3	1421.8	1379.0	1265.9	1109.0	907.7	885.4	700.9
15°	1545.9	1551.9	1567.8	1581.0	1578.9	1541.9	1438.1	1266.3	1031.7	1006.9	776.1
17.5°	1606.7	1613.4	1636.5	1665.8	1692.7	1684.1	1604.3	1418.2	1157.1	1128.5	856.6
20°	1660.0	1668.0	1692.7	1731.4	1781.6	1792.4	1740.0	1565.4	1282.2	1247.4	939.7
22.5°	1775.6	1775.3	1790.5	1813.0	1860.9	1888.7	1855.6	1702.1	1405.9	1369.6	1024.5
25°	1984.6	1976.6	1971.3	1953.6	1964.1	1981.4	1962.9	1829.9	1530.3	1493.6	1110.5
27.5°	2232.9	2237.7	2195.0	2147.2	2110.2	2092.4	2062.1	1948.3	1650.0	1609.6	1194.5
30°	2495.0	2496.4	2446.0	2385.0	2303.5	2236.0	2183.7	2061.4	1772.9	1729.0	1276.2
32.5°	2731.3	2722.0	2672.0	2588.9	2486.1	2410.2	2301.4	2187.8	1903.1	1860.6	1367.0
35°	2918.7	2907.7	2846.9	2771.2	2664.6	2588.2	2457.3	2313.9	2040.0	1998.5	1458.0
37.5°	3055.6	3042.6	2980.2	2902.4	2810.4	2765.9	2638.1	2451.0	2189.4	2144.8	1553.9
40°	3103.2	3091.9	3052.7	2995.8	2921.8	2911.7	2830.1	2608.8	2352.1	2304.5	1662.4
42.5°	3074.8	3063.8	3049.9	3030.6	2999.9	3009.5	3011.2	2788.8	2532.7	2485.9	1782.3
45°	2962.4	2952.6	2967.0	2995.1	3033.3	3080.8	3176.4	2982.1	2734.5	2684.5	1920.9
47.5°	2796.9	2789.7	2829.6	2899.7	3011.4	3142.6	3327.5	3185.3	2961.0	2914.6	2093.8
50°	2561.5	2560.3	2640.1	2768.1	2939.8	3172.4	3483.7	3416.4	3275.6	3226.9	2334.3
52.5°	2195.0	2197.4	2354.2	2559.1	2814.2	3152.2	3584.1	3713.3	3641.7	3591.0	2542.5
55°	1846.0	1860.4	1971.6	2267.0	2621.6	3077.2	3618.7	3851.9	3843.7	3795.7	2658.3
57.5°	1504.1	1530.3	1637.5	1913.5	2340.3	2904.5	3599.7	3911.9	3994.1	3957.3	2811.1
60°	1133.8	1145.8	1269.2	1527.2	1979.3	2589.4	3462.0	3944.6	4199.7	4174.2	3032.8
62.5°	721.3	751.4	860.9	1109.7	1541.1	2151.7	3230.0	3944.1	4457.0	4470.9	3318.9
65°	380.0	415.1	473.2	687.7	1059.1	1662.9	2881.0	3907.1	4772.6	4792.0	3542.5
67.5°	204.9	215.0	245.7	356.9	614.2	1126.6	2368.2	3724.6	4955.4	4981.1	3573.7
70°	149.9	155.4	166.9	197.4	309.1	654.3	1728.0	3310.7	4719.7	4710.1	3175.2
72.5°	115.1	123.7	132.4	144.6	177.7	349.3	1075.9	2592.5	3765.9	3702.5	2373.4
75°	90.8	92.2	104.5	115.5	133.3	198.9	477.8	1509.9	2298.5	2148.4	1230.8
77.5°	72.5	73.5	80.7	90.3	107.1	130.7	148.0	594.0	733.8	654.8	267.1
80°	43.0	45.4	60.1	69.7	88.9	82.4	54.0	129.0	114.6	103.8	44.9
82.5°	24.0	25.9	33.9	55.0	62.0	39.4	26.9	34.8	26.9	26.2	12.7
85°	0.0	1.2	21.9	34.1	25.2	8.6	11.3	11.5	7.9	7.4	5.0
87.5°	0.0	0.0	6.7	6.5	1.0	1.4	2.6	3.8	3.1	3.1	2.6
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°	465.0	465.0	465.0	465.0	465.0	465.0	465.0	465.0	465.0	465.0	465.0
2.5°	474.2	461.2	436.7	412.7	392.5	375.9	361.0	355.0	350.2	349.5	345.7
5°	495.3	469.1	422.3	383.8	358.1	339.9	324.3	314.7	307.2	304.3	301.7
7.5°	527.2	487.6	420.4	376.2	345.4	314.7	285.8	254.6	235.2	227.7	223.4
10°	566.2	512.1	427.6	374.0	320.2	255.3	207.5	167.9	151.8	146.5	145.1
12.5°	611.6	542.6	440.1	360.5	266.4	181.4	143.2	129.7	126.1	124.4	124.4
15°	663.7	576.0	448.9	321.6	197.0	137.2	123.9	117.7	113.9	111.7	111.9
17.5°	717.0	608.7	444.6	265.2	145.3	122.0	112.2	105.4	100.2	98.0	97.5
20°	770.8	638.9	420.6	197.4	123.0	110.7	99.7	92.2	87.0	84.8	84.3
22.5°	826.5	664.6	378.3	144.8	110.5	98.2	87.4	80.0	74.9	73.0	72.1
25°	880.8	685.5	319.2	117.2	98.7	86.5	76.1	69.2	64.6	62.7	62.5
27.5°	931.5	698.7	250.8	103.5	88.4	75.9	66.5	60.3	56.4	55.0	54.8
30°	977.1	700.0	185.4	93.4	79.3	66.8	58.1	52.6	49.2	47.8	47.3
32.5°	1023.3	689.9	135.0	84.3	70.9	58.8	50.4	46.1	43.7	42.5	42.5
35°	1066.7	666.6	105.2	76.4	62.7	51.2	44.4	41.3	39.9	38.7	38.7
37.5°	1109.3	633.2	89.4	69.4	55.0	44.7	39.2	37.2	36.0	34.8	34.8
40°	1152.5	591.1	81.2	62.9	48.8	39.6	34.8	33.1	31.9	31.0	30.7
42.5°	1205.6	542.6	75.9	56.9	43.2	35.1	30.7	28.8	27.9	26.9	26.4
45°	1267.1	500.8	71.6	50.9	38.7	31.2	26.7	24.7	23.3	22.1	21.9
47.5°	1355.7	470.6	65.8	44.4	34.3	27.1	23.1	20.9	18.7	17.5	17.3
50°	1468.8	445.6	58.4	38.7	30.0	23.1	19.2	16.6	14.7	13.5	13.5
52.5°	1525.0	412.9	51.6	33.6	25.2	19.5	15.6	12.5	11.5	10.3	10.3
55°	1547.6	387.9	44.9	28.6	20.9	16.1	12.3	9.6	8.9	8.2	7.9
57.5°	1611.0	380.7	39.2	24.3	17.3	12.7	9.4	7.2	6.7	5.8	5.8
60°	1713.1	384.3	33.9	20.7	13.9	9.8	7.0	5.5	5.0	4.1	4.1
62.5°	1823.4	379.8	28.6	17.8	10.8	7.2	4.8	4.1	4.1	2.4	2.2
65°	1844.5	338.2	24.5	14.7	8.4	5.3	3.1	2.6	3.6	0.5	0.0
67.5°	1711.9	262.3	21.1	11.3	6.2	4.1	2.4	1.2	3.1	0.0	0.0
70°	1368.9	166.7	17.1	8.2	4.8	3.4	1.9	0.5	2.4	0.0	0.0
72.5°	968.0	96.8	13.5	5.8	4.1	2.6	1.4	0.0	1.4	0.0	0.0
75°	489.5	51.6	8.4	4.3	3.1	1.9	1.0	0.0	0.2	0.0	0.0
77.5°	105.9	24.0	5.3	3.1	2.2	1.2	0.5	0.0	0.0	0.0	0.0
80°	23.1	10.6	3.4	1.9	1.2	0.7	0.0	0.0	0.0	0.0	0.0
82.5°	8.4	5.5	1.7	1.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.6	2.9	1.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.4	1.0	0.2	0.2	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)