

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: P324955

Luminaire Tested: **GAN-SA1B-830-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324955
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-SA1B-830-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3893 lumens
Efficiency: N/A
Efficacy: 88.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G0

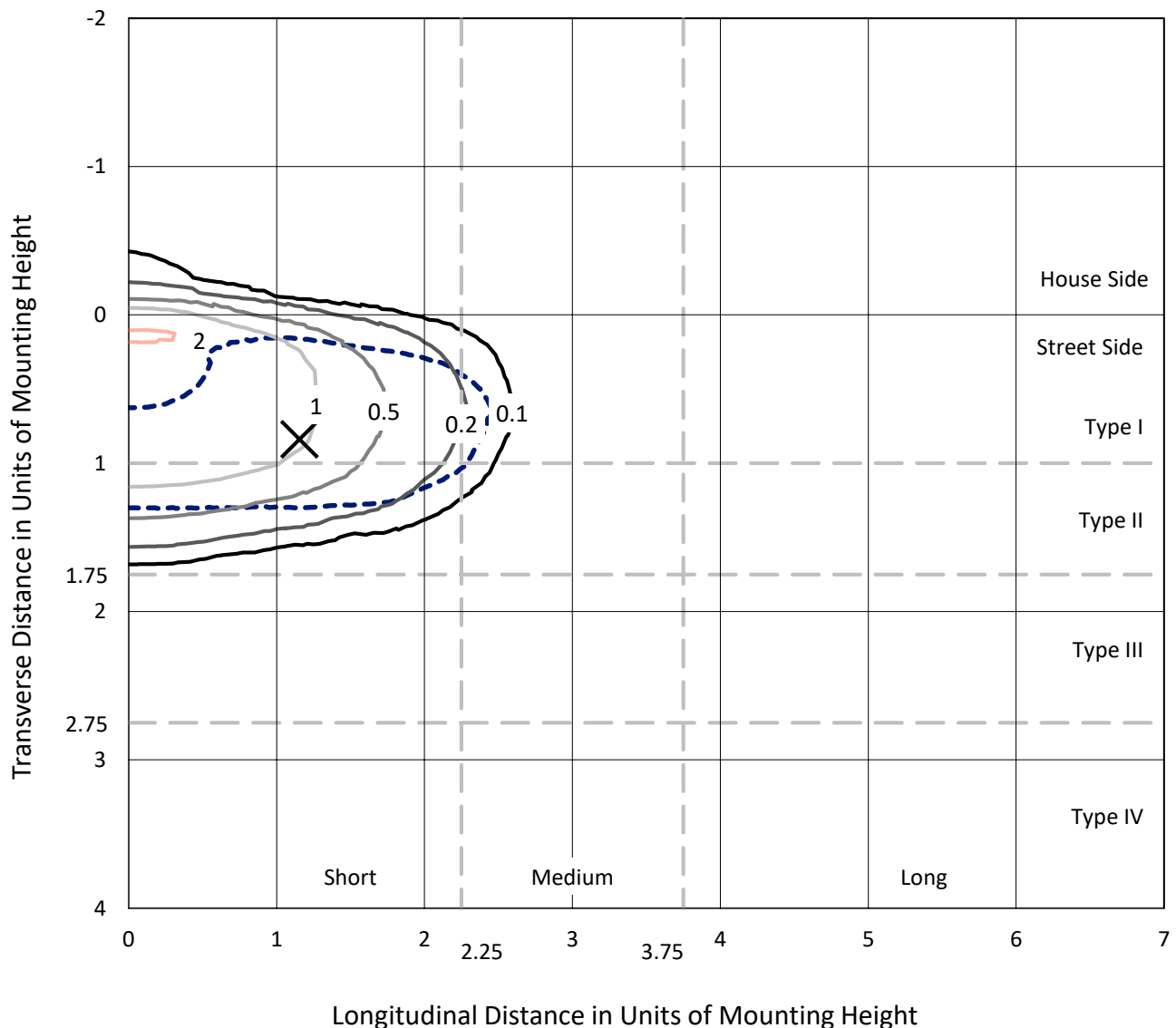
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

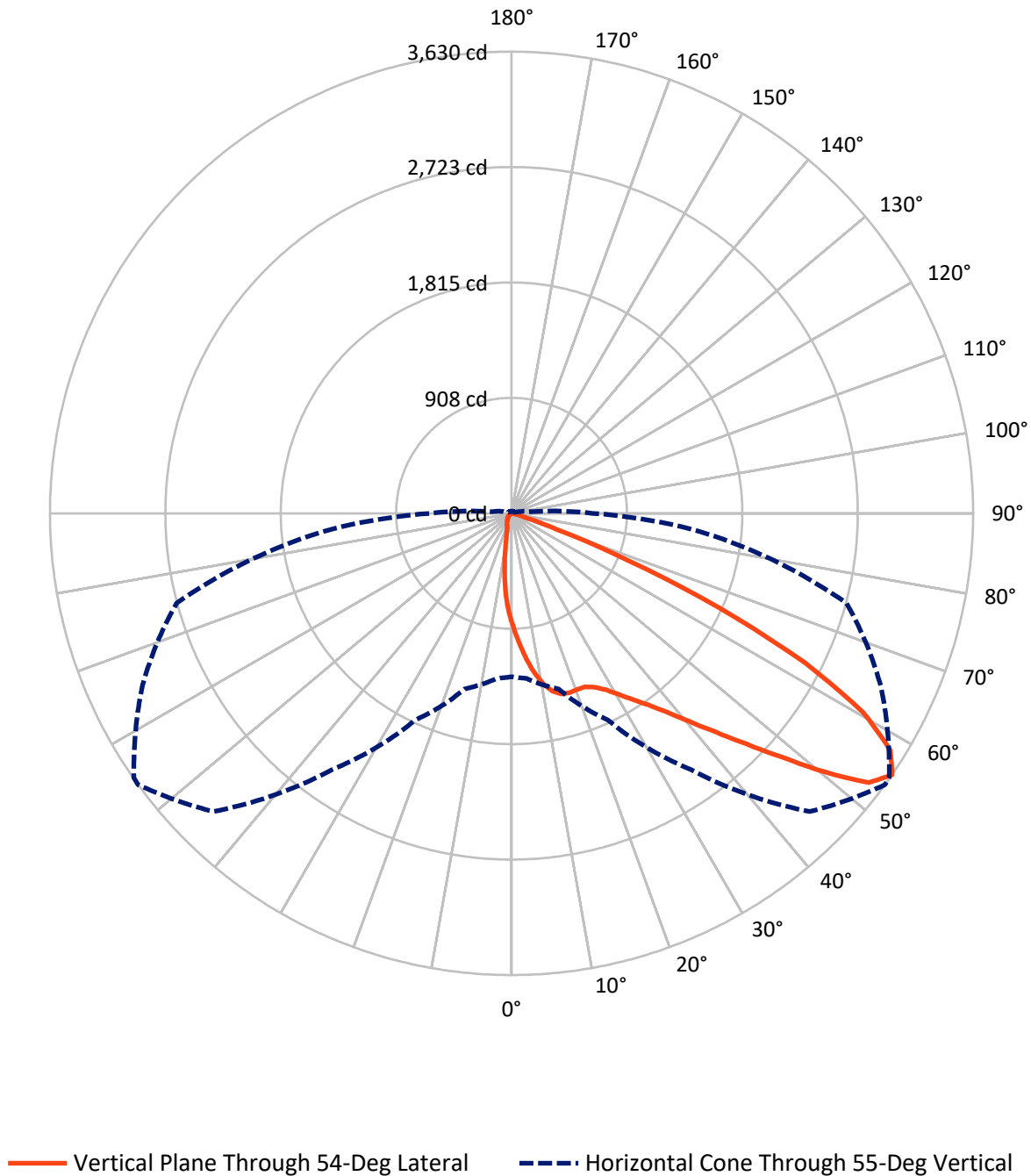
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	194.2	0.0	194.2
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	3698.8	0.0	3698.8
	% Fixture	95.0	0.0	95.0
Total	Lumens	3893.0	0.0	3893.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.3	2.1
10°-20°	220.2	5.7
20°-30°	375.9	9.7
30°-40°	603.3	15.5
40°-50°	964.1	24.8
50°-60°	1033.1	26.5
60°-70°	530.4	13.6
70°-80°	80.3	2.1
80°-90°	5.2	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°	3893.0	100.0
0°-180°	3893.0	100.0

Coefficient of Utilization



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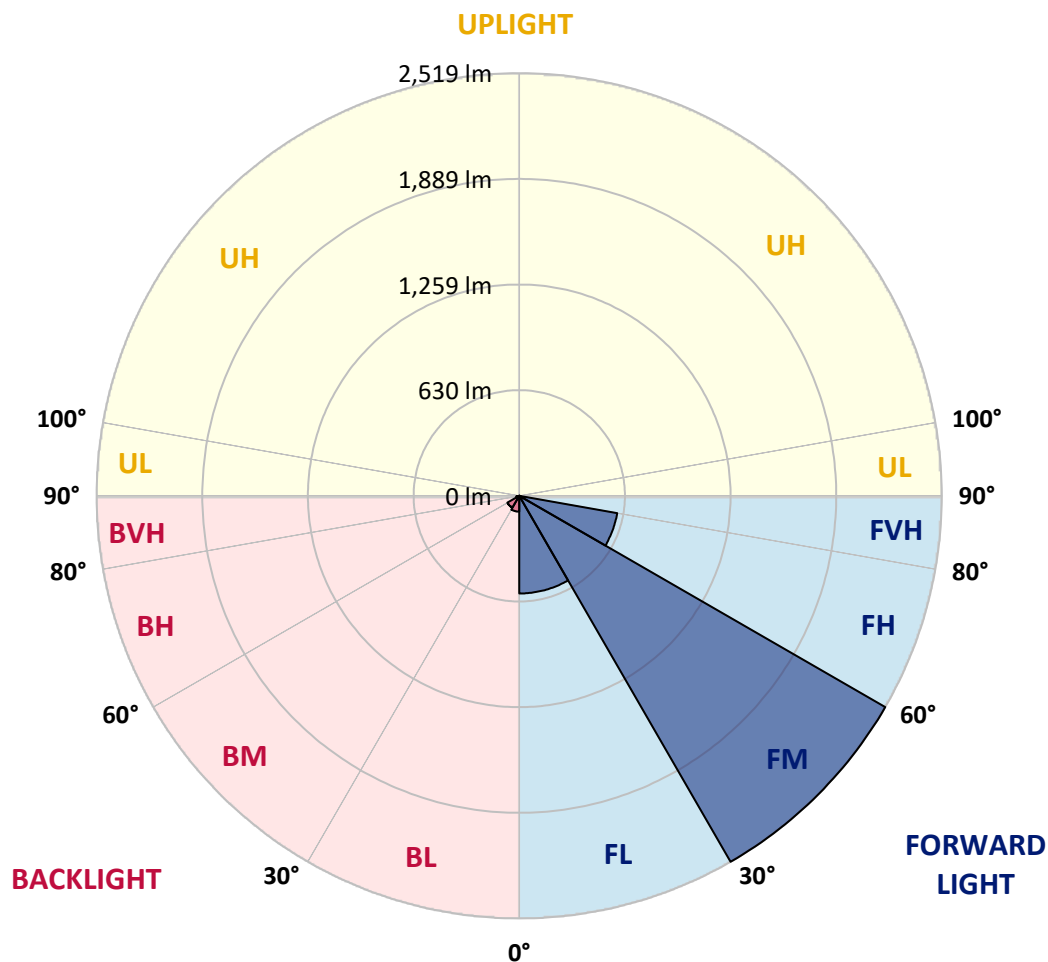
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	581.9	14.9			
FM	(30°-60°)	2518.9	64.7			
FH	(60°-80°)	592.9	15.2			G0/660
FVH	(80°-90°)	5.0	0.1			G0/10
BL	(0°-30°)	94.5	2.4	B0/110		
BM	(30°-60°)	81.6	2.1	B0/220		
BH	(60°-80°)	17.9	0.5	B0/110		G0/110
BVH	(80°-90°)	0.2	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-G0

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	871.9	871.9	871.9	871.9	871.9	871.9	871.9	871.9	871.9	871.9	871.9
2.5°	1094.1	1077.8	1078.3	1070.9	1043.9	1022.7	1000.7	995.4	961.1	925.2	890.5
5°	1283.3	1271.3	1268.5	1254.2	1216.5	1176.7	1134.0	1124.1	1057.0	983.3	910.9
7.5°	1380.4	1380.6	1378.3	1373.0	1349.5	1310.8	1258.7	1248.3	1157.0	1046.6	932.1
10°	1352.2	1358.6	1371.7	1389.0	1407.0	1402.1	1363.0	1353.5	1254.4	1113.5	955.6
12.5°	1286.3	1287.1	1301.8	1330.2	1382.0	1435.1	1435.8	1432.6	1347.3	1183.4	981.5
15°	1253.5	1256.7	1262.1	1280.4	1329.5	1414.6	1475.4	1480.0	1432.6	1257.7	1009.1
17.5°	1275.0	1279.6	1275.0	1277.2	1305.6	1382.1	1482.3	1493.9	1507.0	1331.2	1035.1
20°	1333.4	1337.6	1329.5	1320.6	1326.1	1372.7	1477.4	1493.1	1565.4	1396.4	1057.0
22.5°	1412.0	1413.7	1401.5	1386.8	1382.8	1404.7	1481.5	1497.6	1612.1	1455.4	1070.8
25°	1498.6	1500.1	1484.8	1468.0	1458.5	1467.4	1514.6	1526.7	1653.3	1511.7	1078.7
27.5°	1592.9	1594.3	1575.1	1554.4	1543.4	1543.7	1569.2	1582.2	1697.2	1576.0	1085.1
30°	1692.6	1692.0	1674.3	1645.6	1631.4	1631.1	1647.9	1661.0	1760.7	1658.3	1093.8
32.5°	1804.6	1803.3	1778.2	1742.6	1726.6	1729.0	1743.9	1751.5	1839.6	1746.1	1109.4
35°	1952.1	1948.2	1910.4	1866.1	1836.7	1835.9	1848.5	1854.5	1940.1	1852.4	1135.5
37.5°	2143.4	2139.8	2088.6	2024.3	1983.0	1967.5	1982.5	1990.2	2083.5	1988.7	1177.4
40°	2332.0	2328.5	2298.0	2239.2	2175.5	2138.3	2150.1	2158.3	2262.6	2154.1	1230.1
42.5°	2462.1	2465.2	2475.8	2480.6	2420.9	2342.9	2348.3	2356.9	2450.7	2331.0	1290.5
45°	2496.4	2503.0	2562.8	2680.4	2702.7	2641.9	2585.5	2590.2	2641.9	2507.9	1350.9
47.5°	2393.4	2405.5	2521.0	2739.5	2928.8	2971.9	2865.3	2859.1	2825.3	2650.9	1393.7
50°	2159.2	2170.3	2319.9	2643.2	2997.4	3286.9	3200.5	3182.2	2986.2	2736.5	1408.9
52.5°	1820.2	1833.7	1955.2	2339.9	2868.1	3427.5	3517.9	3502.6	3104.2	2743.2	1411.4
55°	1285.5	1301.8	1430.4	1793.3	2458.4	3315.7	3630.4	3625.9	3202.2	2725.4	1416.8
57.5°	722.4	734.2	872.9	1149.6	1800.6	2888.0	3512.9	3543.0	3261.4	2694.5	1424.8
60°	320.8	324.0	395.8	572.3	1054.1	2207.1	3176.5	3227.3	3210.6	2653.1	1438.4
62.5°	177.9	175.2	175.2	237.9	458.1	1366.3	2590.2	2674.1	2993.9	2604.2	1439.1
65°	139.4	136.9	129.6	130.6	174.5	606.4	1793.7	1942.8	2582.3	2460.8	1390.7
67.5°	118.2	116.0	108.8	105.9	108.4	200.1	985.5	1140.4	1959.5	2088.1	1204.6
70°	99.9	98.4	94.7	91.1	84.7	98.9	377.1	482.3	1207.4	1389.0	822.3
72.5°	80.4	79.7	81.0	78.0	70.3	65.9	128.9	156.2	542.4	619.9	338.8
75°	69.3	68.9	69.6	66.6	57.8	45.9	65.6	71.6	153.0	151.6	68.6
77.5°	45.1	45.6	57.7	56.3	49.8	30.6	34.0	36.7	46.4	34.8	20.8
80°	28.7	28.4	29.3	46.7	44.7	23.4	17.0	17.8	22.4	17.1	10.1
82.5°	17.5	17.1	19.2	21.9	22.5	16.3	10.4	10.6	14.0	11.1	5.4
85°	1.5	2.0	11.6	10.8	7.7	5.0	5.0	5.4	7.4	6.6	3.0
87.5°	0.0	0.0	2.0	3.0	1.7	1.8	1.8	2.0	2.9	2.9	1.5
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°	871.9	871.9	871.9	871.9	871.9	871.9	871.9	871.9	871.9	871.9	871.9
2.5°	872.5	855.1	819.8	785.8	757.0	729.3	697.7	666.4	651.8	645.9	639.9
5°	874.1	838.1	765.3	692.0	616.0	547.6	489.2	429.4	399.5	386.3	380.3
7.5°	876.1	821.3	703.6	580.5	458.1	365.3	284.3	232.2	209.6	206.1	197.4
10°	876.4	800.9	632.0	457.5	307.2	220.2	169.5	142.6	132.6	131.0	128.1
12.5°	877.1	776.9	552.4	338.8	204.8	147.3	122.6	113.6	111.0	110.8	110.8
15°	879.1	751.7	469.9	244.1	147.1	116.7	107.6	104.1	103.1	103.6	103.4
17.5°	879.1	721.9	388.9	181.9	118.9	104.9	99.9	97.5	97.2	97.7	97.8
20°	872.7	685.8	314.6	141.6	105.4	97.3	92.8	90.6	89.8	90.1	90.3
22.5°	857.4	641.4	254.0	117.2	96.5	90.4	85.6	82.2	80.9	81.0	81.0
25°	833.5	588.8	198.7	101.4	89.3	83.1	77.3	73.5	72.6	72.5	72.8
27.5°	802.9	530.6	158.2	89.3	80.7	74.8	69.1	65.9	65.2	65.4	65.6
30°	772.9	470.2	124.7	79.0	71.1	65.6	61.2	59.7	59.7	60.2	60.4
32.5°	745.3	412.2	98.7	70.1	62.5	57.5	55.0	54.8	55.6	56.0	56.2
35°	721.6	358.6	81.7	63.2	55.8	51.4	50.6	51.3	52.3	53.0	53.1
37.5°	704.8	310.7	71.5	57.5	50.6	47.1	46.9	48.3	49.6	51.1	51.4
40°	697.7	270.2	64.4	52.5	46.4	43.7	43.2	45.1	47.6	49.8	50.1
42.5°	691.8	237.1	58.3	47.6	43.0	39.2	39.0	41.4	44.4	46.6	47.1
45°	686.8	210.5	52.8	42.4	38.7	33.6	34.1	37.2	39.5	41.9	42.4
47.5°	676.4	188.6	46.7	36.8	31.9	28.7	29.8	32.4	34.3	37.8	38.3
50°	657.7	170.8	40.5	30.1	26.1	24.9	26.4	28.2	30.6	33.6	34.0
52.5°	645.1	157.4	35.1	25.2	21.5	21.9	23.4	24.0	25.4	26.6	26.2
55°	637.9	150.0	30.8	21.9	18.3	19.3	19.7	18.8	18.2	17.0	16.5
57.5°	637.0	143.2	27.4	19.0	16.1	16.6	15.5	12.6	10.3	8.9	8.6
60°	635.7	135.0	24.7	16.0	14.3	13.6	11.1	6.9	4.9	4.5	4.5
62.5°	621.0	122.2	22.7	13.4	12.1	10.3	6.4	3.2	2.7	2.9	2.9
65°	574.5	104.4	20.7	10.9	9.6	7.4	3.2	1.8	1.0	1.2	1.2
67.5°	488.4	83.2	18.5	8.4	7.2	4.7	1.8	0.8	0.0	0.0	0.0
70°	327.0	51.6	15.6	5.9	4.7	2.9	1.3	0.2	0.0	0.0	0.0
72.5°	125.4	27.9	12.6	3.5	3.0	2.0	0.8	0.0	0.0	0.0	0.0
75°	28.2	18.3	8.7	2.5	2.2	1.3	0.3	0.0	0.0	0.0	0.0
77.5°	10.8	13.3	5.0	1.7	1.5	0.8	0.0	0.0	0.0	0.0	0.0
80°	5.2	7.9	2.4	1.0	0.8	0.3	0.0	0.0	0.0	0.0	0.0
82.5°	2.7	3.0	1.0	0.5	0.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	1.5	1.5	0.5	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.8	0.5	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)