

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: P322795

Luminaire Tested: **GAN-SA1B-727-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322795
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1B-727-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV WIDE OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3626 lumens
Efficiency: N/A
Efficacy: 82.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G1

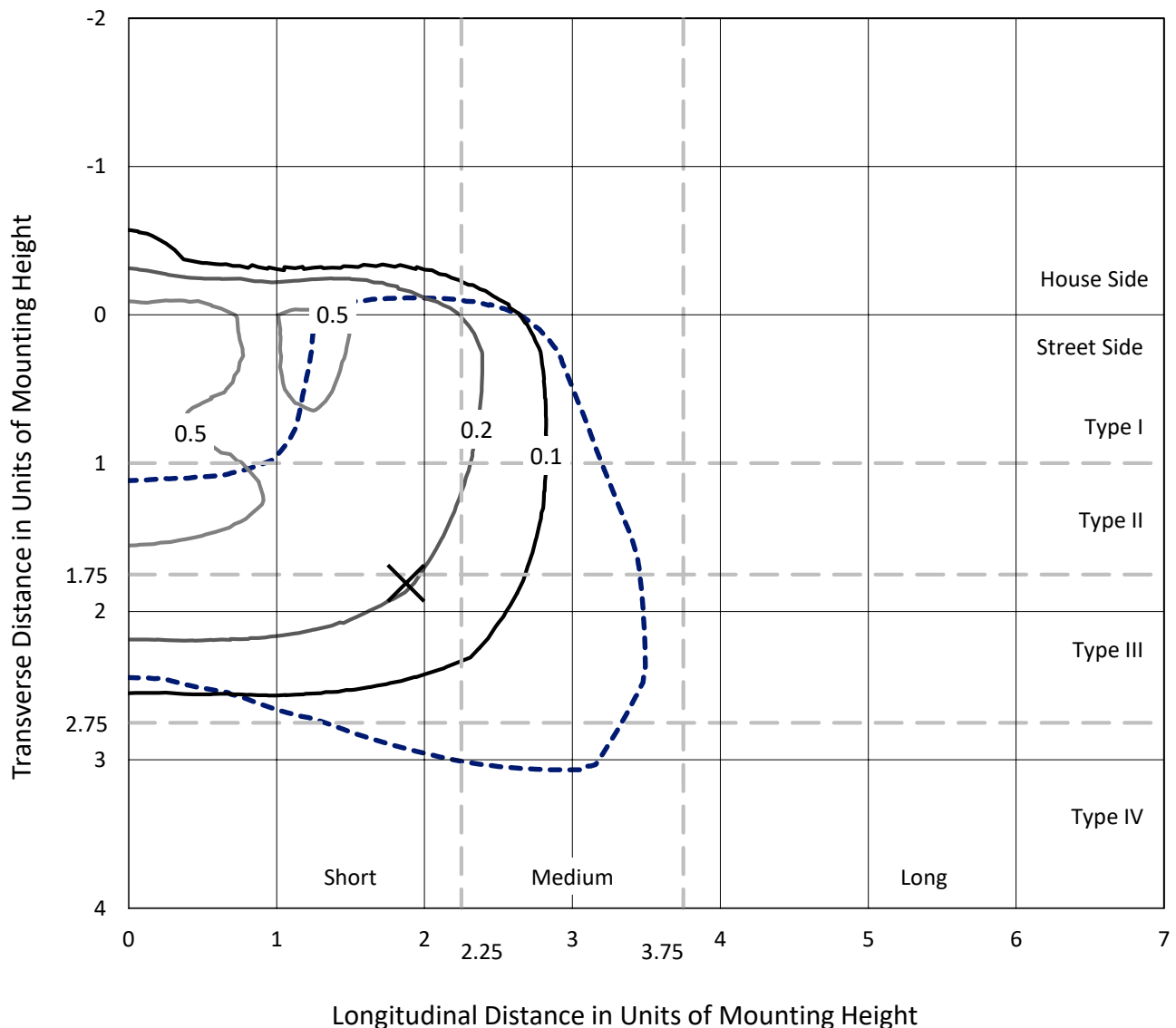
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

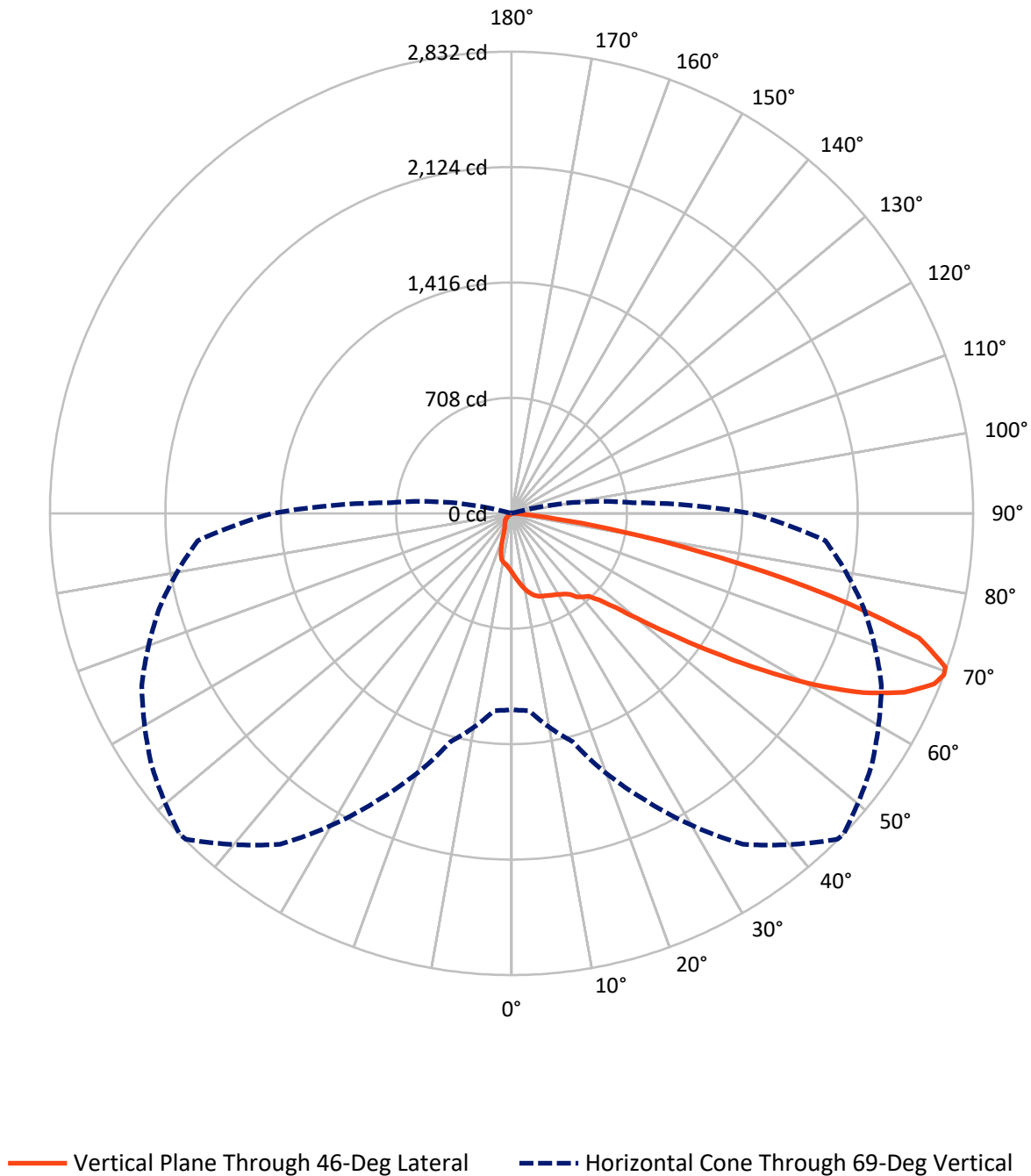
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	372.1	0.0	372.1
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	3253.9	0.0	3253.9
	% Fixture	89.7	0.0	89.7
Total	Lumens	3626.0	0.0	3626.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.2	1.0
10°-20°	109.7	3.0
20°-30°	172.5	4.8
30°-40°	247.4	6.8
40°-50°	427.6	11.8
50°-60°	844.8	23.3
60°-70°	1180.7	32.6
70°-80°	570.4	15.7
80°-90°	36.7	1.0
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°	3626.0	100.0
0°-180°	3626.0	100.0

Coefficient of Utilization



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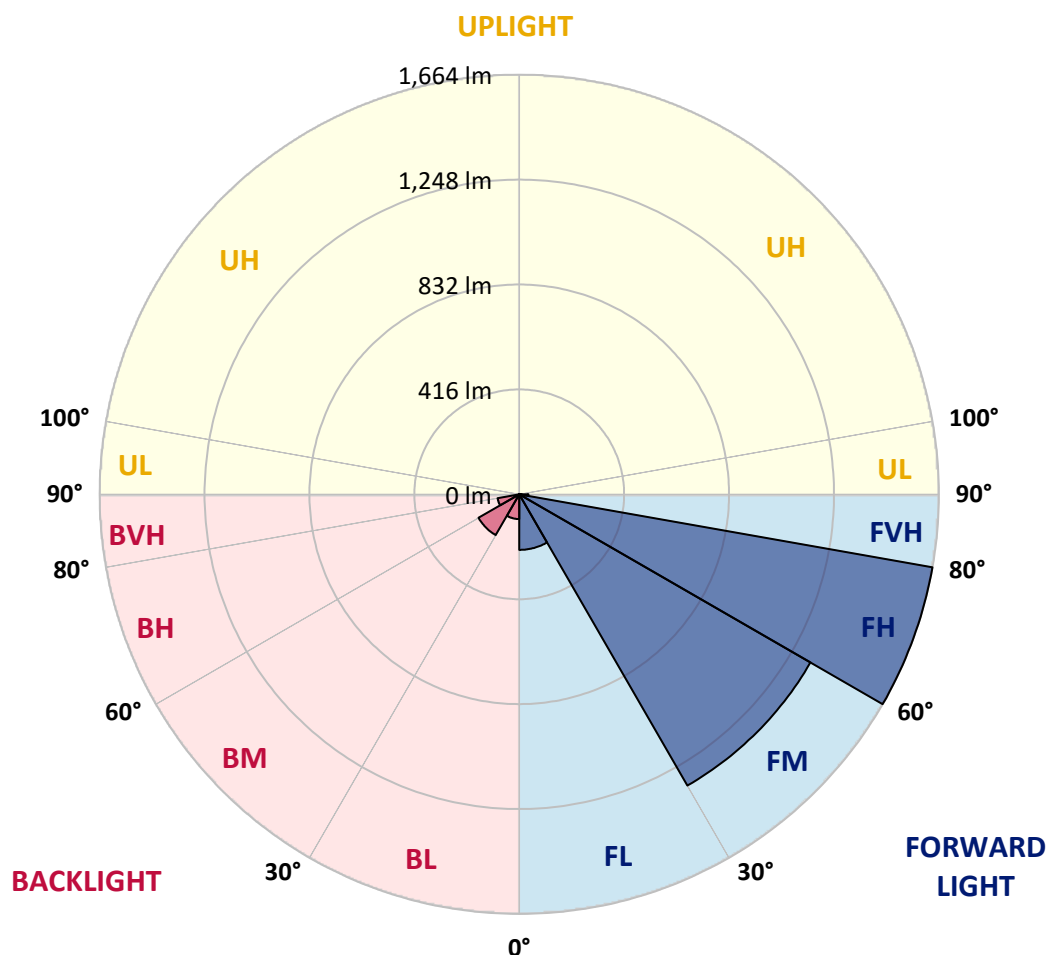
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	220.3	6.1			
FM	(30°-60°)	1333.4	36.8			
FH	(60°-80°)	1663.8	45.9			G1/1800
FVH	(80°-90°)	36.3	1.0			G1/100
BL	(0°-30°)	98.1	2.7	B0/110		
BM	(30°-60°)	186.5	5.1	B0/220		
BH	(60°-80°)	87.3	2.4	B0/110		G0/110
BVH	(80°-90°)	0.3	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	363.3	363.3	363.3	363.3	363.3	363.3	363.3	363.3	363.3	363.3	363.3
2.5°	403.6	403.1	400.7	399.7	393.9	390.5	389.2	384.9	378.8	372.7	365.9
5°	449.5	449.3	444.9	440.7	429.8	419.6	417.7	407.9	394.1	381.2	368.2
7.5°	496.4	494.2	489.8	481.6	465.8	449.5	448.0	434.0	414.5	395.8	377.3
10°	536.2	534.9	529.1	516.7	498.1	479.6	477.7	460.6	438.5	415.5	391.9
12.5°	567.2	566.1	558.5	543.0	523.3	504.1	501.5	486.2	462.6	436.9	409.0
15°	586.0	585.5	576.2	559.7	540.3	523.6	521.4	508.0	486.1	459.2	427.7
17.5°	590.4	590.6	580.9	564.3	548.3	536.4	534.7	524.5	506.1	479.4	446.4
20°	580.6	582.6	574.0	559.5	549.6	543.4	542.0	535.9	520.4	495.2	461.4
22.5°	566.6	567.7	561.7	552.0	547.9	549.1	548.5	545.1	532.0	508.8	476.2
25°	558.1	558.1	554.6	546.4	549.1	556.4	556.6	555.9	545.6	525.5	494.2
27.5°	557.8	556.8	552.7	546.6	554.1	565.3	566.0	570.6	564.1	545.7	516.7
30°	571.4	570.2	561.5	553.6	563.1	575.1	576.8	586.9	583.6	567.7	541.7
32.5°	603.2	598.9	579.7	566.6	573.8	588.2	590.4	606.4	611.5	594.7	565.8
35°	646.7	633.3	605.6	591.5	592.1	607.3	609.3	632.8	647.9	619.5	584.5
37.5°	706.7	700.1	655.0	617.3	620.4	643.3	649.3	674.8	670.5	633.1	605.7
40°	838.3	827.9	780.0	689.7	647.4	672.6	674.4	688.0	688.4	663.9	649.9
42.5°	1017.5	1013.3	962.8	821.1	700.6	692.1	695.5	718.5	744.1	728.8	728.2
45°	1215.9	1213.7	1160.1	995.6	808.2	756.2	760.5	791.2	840.4	843.8	865.4
47.5°	1375.6	1374.5	1343.8	1190.2	973.0	864.8	866.2	898.8	985.2	1027.9	1062.4
50°	1521.1	1526.0	1501.7	1400.9	1197.4	1035.0	1031.8	1053.6	1192.3	1262.2	1305.0
52.5°	1723.4	1730.4	1662.2	1597.4	1432.8	1246.2	1243.6	1266.4	1441.2	1493.5	1501.2
55°	1902.1	1890.2	1836.3	1817.6	1720.0	1507.0	1506.3	1526.4	1681.9	1704.2	1718.3
57.5°	1981.0	1976.4	2002.4	2045.2	2020.7	1815.2	1813.7	1798.4	1897.3	1899.7	1943.0
60°	2030.8	2036.4	2116.1	2248.2	2309.2	2146.9	2137.0	2043.7	2103.0	2097.8	2144.2
62.5°	1993.4	2004.4	2147.9	2368.1	2525.2	2436.4	2422.5	2268.4	2278.8	2260.6	2303.8
65°	1794.8	1812.0	2047.1	2345.5	2632.3	2662.7	2648.6	2466.8	2418.4	2388.5	2364.5
67.5°	1457.3	1467.5	1713.0	2148.8	2584.0	2797.7	2794.8	2640.8	2523.8	2366.9	2180.9
69°	1204.4	1214.4	1450.7	1941.7	2477.7	2826.6	2832.2	2696.5	2503.7	2235.6	1932.3
70°	1020.1	1030.8	1250.9	1764.2	2354.5	2813.2	2823.2	2691.3	2446.3	2083.6	1714.2
72.5°	535.0	544.2	770.1	1215.4	1919.4	2583.1	2613.6	2463.8	2073.6	1513.3	1013.6
75°	168.1	173.4	300.7	635.3	1314.2	2008.5	2015.5	1932.7	1472.5	832.4	422.1
77.5°	64.1	62.6	100.1	234.1	664.4	1264.7	1307.4	1207.8	772.7	294.3	97.4
80°	34.5	34.7	52.0	96.9	284.3	649.9	686.0	585.3	274.6	91.8	22.4
82.5°	15.0	15.6	29.2	51.3	130.6	239.7	257.7	214.6	104.9	61.7	8.3
85°	3.2	3.6	14.1	27.9	53.2	67.3	70.6	69.5	66.8	47.9	3.2
87.5°	0.0	0.0	6.3	10.0	13.4	15.3	13.4	17.5	36.9	32.3	1.7
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°	363.3	363.3	363.3	363.3	363.3	363.3	363.3	363.3	363.3	363.3	363.3
2.5°	363.7	360.6	355.3	349.5	345.5	341.2	337.8	336.3	334.6	333.4	334.9
5°	363.0	357.0	346.8	337.0	329.8	324.0	319.3	317.4	315.5	314.2	314.0
7.5°	368.9	360.6	345.0	330.5	319.4	311.6	305.2	302.4	300.2	299.2	298.4
10°	380.3	369.6	348.7	329.8	315.5	302.3	288.3	277.6	270.7	267.4	266.2
12.5°	395.1	381.7	355.8	333.4	312.6	287.1	257.6	232.1	215.6	210.1	206.9
15°	412.4	395.8	365.2	338.0	302.1	255.5	205.4	172.1	156.7	153.7	150.3
17.5°	429.1	410.7	376.4	338.8	279.0	204.2	150.5	127.8	121.9	123.9	124.4
20°	443.7	425.5	387.5	331.3	237.0	153.2	116.5	110.8	113.1	117.0	117.6
22.5°	458.5	439.8	397.7	311.6	183.3	116.3	104.9	106.3	108.5	112.4	113.1
25°	476.5	457.2	407.2	275.4	137.5	98.9	99.6	101.7	103.9	107.4	107.8
27.5°	497.3	479.1	413.5	228.3	102.0	91.0	93.2	96.2	98.4	101.8	102.5
30°	524.8	508.0	415.5	179.5	85.5	83.8	84.8	88.6	91.8	94.9	95.4
32.5°	550.7	536.6	408.7	135.5	79.2	77.2	77.2	79.4	83.1	86.0	86.7
35°	574.5	565.3	386.9	99.1	74.5	71.1	69.4	69.4	71.7	74.1	74.8
37.5°	605.9	605.6	351.8	79.1	69.9	66.0	62.4	59.7	58.8	59.3	59.7
40°	659.8	660.3	305.8	70.9	66.0	60.7	55.3	50.3	45.7	44.2	44.0
42.5°	744.0	736.3	257.7	67.0	62.6	55.3	47.1	40.5	33.3	31.1	30.9
45°	877.6	832.2	206.7	63.4	59.0	49.1	38.9	29.9	24.1	22.4	22.4
47.5°	1072.3	958.2	160.1	59.5	54.2	42.2	29.4	21.6	17.7	16.8	17.0
50°	1273.5	1081.6	122.7	54.6	48.5	34.9	21.8	15.6	13.4	13.4	13.6
52.5°	1452.1	1172.0	95.7	49.3	41.3	27.4	16.5	12.2	11.2	11.1	11.2
55°	1619.2	1230.4	73.3	43.2	32.8	20.4	12.6	10.0	9.4	9.0	8.8
57.5°	1780.3	1259.3	54.9	34.9	23.8	14.8	10.0	8.5	7.8	7.3	7.1
60°	1887.6	1235.8	37.7	25.7	16.5	10.7	8.3	7.3	6.5	6.0	5.8
62.5°	1948.1	1171.7	24.3	18.5	11.7	8.0	6.6	6.1	4.9	4.4	4.4
65°	1923.7	1066.0	17.0	13.3	8.5	6.0	4.9	4.9	3.6	2.9	2.7
67.5°	1704.7	900.5	12.9	9.9	6.1	4.4	3.7	4.3	2.2	1.4	1.4
69°	1466.7	746.3	11.1	8.2	5.1	3.6	3.2	3.9	1.5	1.0	0.9
70°	1274.7	643.8	10.0	7.1	4.3	3.1	2.9	3.7	1.5	0.9	0.7
72.5°	762.7	359.1	7.7	5.1	2.7	2.4	2.4	4.3	1.5	0.9	0.7
75°	308.2	126.5	5.6	3.6	2.0	2.0	2.9	5.4	1.4	0.7	0.5
77.5°	69.9	27.7	3.2	2.2	1.4	2.0	3.4	4.3	0.9	0.3	0.0
80°	17.0	6.8	2.0	1.4	0.9	1.5	2.6	2.4	0.2	0.0	0.0
82.5°	5.6	2.4	0.9	0.7	0.2	0.5	1.2	0.7	0.0	0.0	0.0
85°	2.4	1.4	0.3	0.2	0.0	0.0	0.2	0.0	0.0	0.0	0.0
87.5°	1.5	0.5	0.0	0.0	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)