

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: P323745

Luminaire Tested: **GAN-SA1A-727-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323745
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1A-727-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV SPILL LIGHT
ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3311 lumens
Efficiency: N/A
Efficacy: 97.4 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

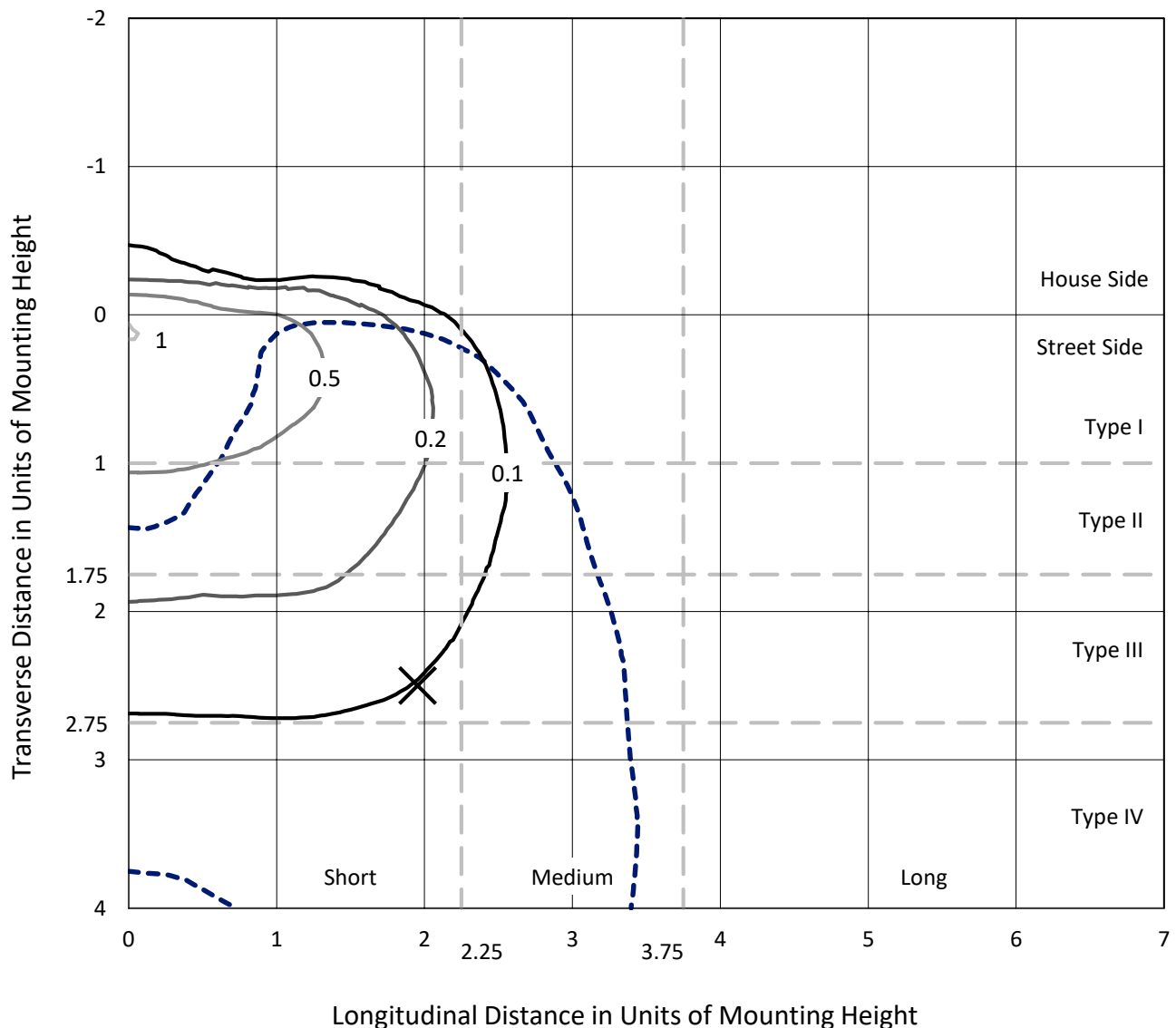
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

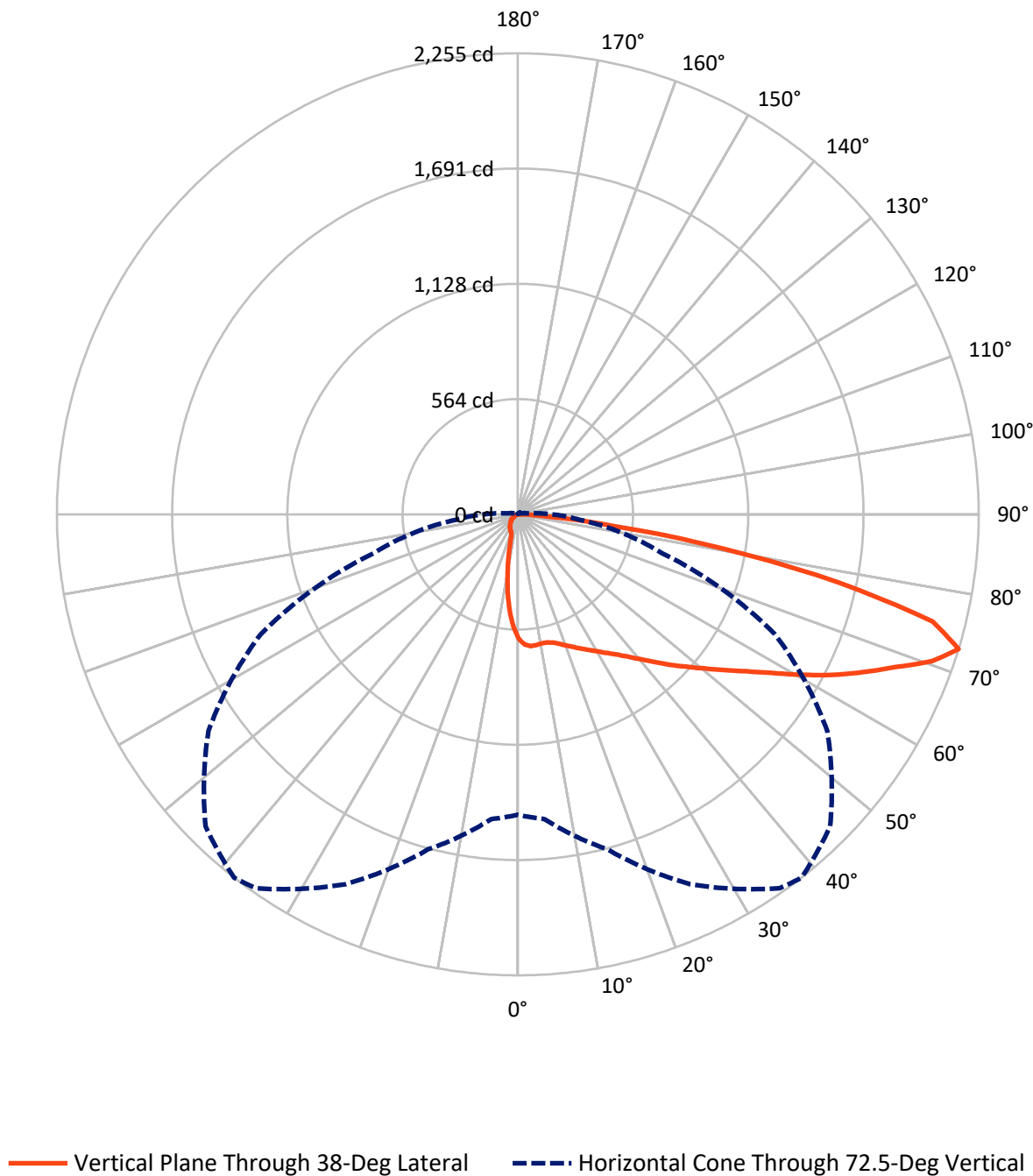
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 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	278.6	0.0	278.6
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	3032.4	0.0	3032.4
	% Fixture	91.6	0.0	91.6
Total	Lumens	3311.0	0.0	3311.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.9	1.6
10°-20°	126.9	3.8
20°-30°	201.8	6.1
30°-40°	303.4	9.2
40°-50°	462.8	14.0
50°-60°	654.1	19.8
60°-70°	820.5	24.8
70°-80°	613.5	18.5
80°-90°	76.1	2.3
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°	3311.0	100.0
0°-180°	3311.0	100.0

Coefficient of Utilization



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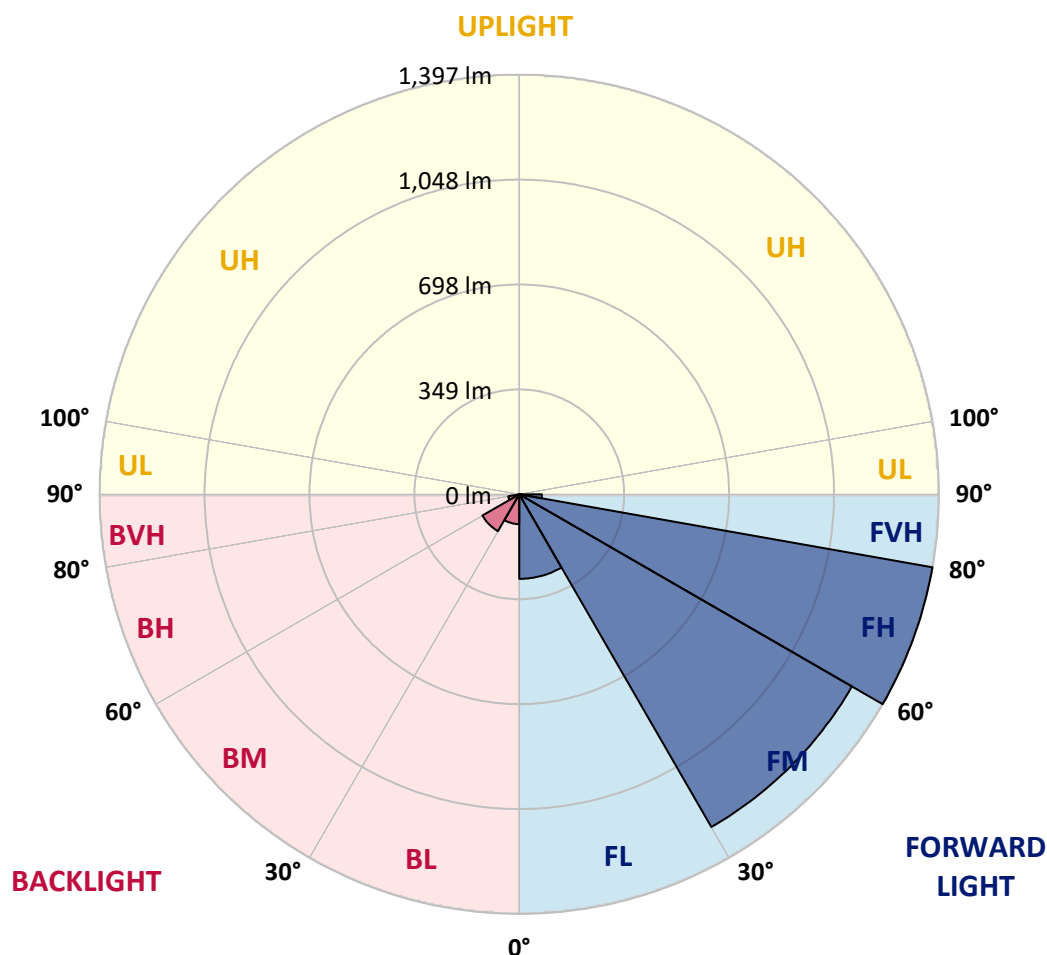
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	281.4	8.5			
FM	(30°-60°)	1278.9	38.6			
FH	(60°-80°)	1396.8	42.2			G1/1800
FVH	(80°-90°)	75.4	2.3			G1/100
BL	(0°-30°)	99.2	3.0	B0/110		
BM	(30°-60°)	141.5	4.3	B0/220		
BH	(60°-80°)	37.2	1.1	B0/110		G0/110
BVH	(80°-90°)	0.7	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°	38°	45°	55°	65°	75°	85°
0°	608.9	608.9	608.9	608.9	608.9	608.9	608.9	608.9	608.9	608.9	608.9
2.5°	646.3	646.4	644.9	642.4	639.3	637.6	634.9	630.5	625.8	617.4	608.3
5°	659.5	659.5	657.6	654.3	649.2	647.7	642.4	635.4	625.8	612.2	596.9
7.5°	658.1	658.4	655.8	652.3	647.2	645.9	639.5	631.7	619.7	603.2	583.7
10°	651.0	651.6	649.6	647.9	643.3	641.7	635.8	628.0	616.0	598.4	576.0
12.5°	643.7	644.4	645.0	646.6	643.7	643.1	638.4	631.8	620.4	602.1	576.8
15°	639.0	640.4	645.3	651.2	651.9	651.4	648.3	642.2	630.6	611.6	582.8
17.5°	639.0	641.2	651.5	662.8	666.8	667.2	664.6	655.9	642.2	621.8	588.3
20°	644.4	647.4	663.5	679.4	686.0	686.0	680.9	668.8	652.7	631.0	592.0
22.5°	658.1	662.1	682.3	700.7	707.7	706.2	699.4	681.8	663.7	641.5	596.6
25°	685.2	688.2	709.3	727.8	732.1	728.7	720.0	697.4	677.8	655.6	605.2
27.5°	720.1	720.5	742.3	757.9	755.3	753.0	742.1	717.1	698.0	675.8	619.9
30°	758.5	758.5	777.6	789.6	781.6	779.7	768.8	740.9	723.8	703.3	640.8
32.5°	795.6	797.3	812.8	820.4	811.4	809.5	798.9	771.0	758.2	745.3	673.4
35°	831.5	832.7	847.5	851.6	843.1	843.6	836.0	812.4	807.6	805.9	722.5
37.5°	866.3	866.6	881.6	884.2	879.9	884.6	885.3	864.4	873.3	886.6	791.6
40°	898.1	898.3	913.2	919.9	927.2	933.3	938.6	927.5	957.1	988.0	874.0
42.5°	923.5	926.4	945.2	958.0	977.3	988.8	1003.4	1002.8	1056.7	1103.2	973.6
45°	945.9	950.9	977.1	999.5	1032.5	1051.0	1073.8	1091.7	1168.9	1231.5	1074.3
47.5°	975.5	980.2	1010.1	1046.8	1090.8	1115.0	1152.9	1191.5	1292.3	1357.5	1172.8
50°	1017.1	1015.1	1044.6	1097.3	1153.8	1185.6	1239.5	1297.4	1414.7	1467.2	1230.7
52.5°	1061.6	1060.7	1082.6	1152.2	1228.1	1265.2	1336.4	1406.8	1531.7	1542.8	1257.2
55°	1116.6	1110.6	1129.1	1214.7	1316.2	1356.1	1440.0	1515.2	1624.9	1585.5	1270.6
57.5°	1174.2	1164.4	1182.0	1284.5	1415.6	1462.8	1554.7	1620.8	1686.9	1614.6	1270.4
60°	1233.7	1222.2	1243.1	1371.6	1539.1	1593.7	1679.0	1692.2	1744.8	1629.3	1261.1
62.5°	1283.5	1276.6	1307.7	1464.9	1677.0	1730.7	1772.9	1757.1	1793.6	1640.7	1239.2
65°	1336.2	1336.6	1386.8	1573.6	1823.6	1859.8	1863.4	1841.2	1834.5	1638.4	1165.2
67.5°	1407.4	1414.0	1497.7	1721.3	1966.2	1994.1	1993.9	1932.4	1864.3	1545.4	1001.2
70°	1482.7	1498.3	1625.6	1890.3	2121.9	2150.2	2135.6	1990.4	1755.4	1249.7	708.6
72.5°	1470.1	1497.0	1696.7	1996.9	2233.7	2255.3	2160.5	1847.8	1387.4	726.3	301.7
75°	1134.2	1165.4	1555.8	1891.3	2116.4	2097.0	1856.3	1437.9	758.2	202.7	67.9
77.5°	599.1	615.8	1027.7	1440.8	1650.2	1609.7	1307.7	797.7	231.1	50.2	30.5
80°	313.8	317.6	447.9	817.5	1018.5	1018.8	775.0	350.4	95.3	25.7	20.5
82.5°	168.0	171.3	236.6	377.7	533.7	483.8	296.7	192.8	55.4	14.6	19.7
85°	40.4	41.1	134.2	172.6	209.8	149.9	88.1	161.8	15.0	8.5	16.0
87.5°	15.5	15.8	49.8	74.7	53.5	34.7	41.3	60.4	1.9	3.3	2.5
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°	608.9	608.9	608.9	608.9	608.9	608.9	608.9	608.9	608.9	608.9	608.9
2.5°	602.8	599.3	590.5	579.3	569.4	562.3	551.5	544.5	539.9	539.7	537.9
5°	587.6	580.3	561.3	538.8	518.3	499.8	478.1	460.9	448.1	446.1	441.7
7.5°	571.2	559.2	530.1	494.9	460.5	425.6	385.0	359.9	338.3	328.0	326.9
10°	561.2	544.4	503.0	452.1	398.2	341.4	288.4	251.6	225.1	217.5	211.9
12.5°	559.1	537.0	482.1	412.0	335.0	259.9	201.2	162.1	140.9	134.2	132.4
15°	561.2	533.5	464.5	372.2	270.9	184.4	135.0	112.3	104.4	102.4	102.3
17.5°	562.4	529.4	444.6	328.1	208.7	131.7	103.4	96.8	95.6	95.4	95.7
20°	562.3	523.1	420.8	278.9	155.2	103.5	93.5	92.1	91.9	92.0	91.9
22.5°	561.3	515.7	394.6	228.1	117.3	92.5	89.2	88.4	88.3	88.3	88.3
25°	563.1	509.7	365.9	179.6	96.7	87.5	85.4	84.7	84.6	84.6	84.3
27.5°	569.6	506.4	334.4	138.2	87.3	82.9	81.3	81.1	80.7	80.6	80.9
30°	580.0	506.4	299.9	107.5	81.7	78.2	77.0	76.7	76.6	76.5	76.6
32.5°	598.4	510.3	262.2	89.4	76.3	73.0	72.2	72.6	72.2	72.2	72.2
35°	631.7	521.8	222.8	78.0	70.7	67.9	67.1	67.7	67.4	67.4	67.2
37.5°	680.2	543.3	183.0	71.1	65.7	62.8	61.7	62.6	62.3	62.3	62.2
40°	739.4	574.5	145.2	65.9	60.9	57.9	56.9	57.3	56.7	56.7	56.9
42.5°	812.4	614.1	112.2	60.8	56.1	53.2	52.7	52.3	51.0	50.3	50.5
45°	893.5	655.4	87.5	55.8	51.6	49.2	48.4	47.3	45.2	43.9	44.0
47.5°	966.0	687.1	71.1	51.0	47.4	45.7	44.4	42.4	39.3	37.7	37.8
50°	1004.1	691.9	60.5	46.2	43.6	41.8	40.0	36.9	33.3	31.5	31.4
52.5°	1013.8	669.4	52.7	41.8	39.7	37.7	35.3	31.1	27.1	25.2	24.9
55°	1017.4	635.0	45.7	37.7	35.6	33.3	30.3	25.4	21.7	19.8	19.7
57.5°	1005.6	583.7	40.2	34.0	31.5	28.6	24.9	20.4	16.8	15.3	15.3
60°	979.3	514.3	35.9	30.0	27.2	23.9	20.1	15.8	12.5	11.3	11.3
62.5°	926.9	424.3	31.9	25.9	23.2	19.8	16.2	12.0	8.8	8.1	8.3
65°	828.1	321.9	27.9	22.1	19.8	16.4	12.7	8.5	5.9	5.9	6.2
67.5°	675.3	223.6	23.8	18.8	17.1	13.3	9.6	5.9	4.1	4.7	5.2
70°	447.0	125.4	20.4	15.5	14.6	10.6	7.2	4.0	3.3	4.4	5.4
72.5°	168.7	48.8	17.1	12.5	12.7	8.1	5.1	3.0	3.0	4.8	6.3
75°	47.0	23.9	12.2	9.2	9.9	5.9	3.7	2.6	2.9	5.5	7.4
77.5°	27.6	17.6	8.0	5.4	6.7	4.1	2.5	2.1	2.5	4.7	7.2
80°	22.3	9.4	4.7	2.8	3.7	2.3	1.7	1.2	0.7	1.8	3.7
82.5°	22.3	5.6	2.2	1.9	1.9	1.2	0.8	0.6	0.1	0.0	1.0
85°	15.0	2.3	1.4	1.2	1.0	0.4	0.3	0.1	0.0	0.0	0.0
87.5°	2.5	1.0	0.6	0.3	0.1	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)