

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: P323945

Luminaire Tested: **GAN-SA1A-827-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323945
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-827-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 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: 2911 lumens
Efficiency: N/A
Efficacy: 85.6 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

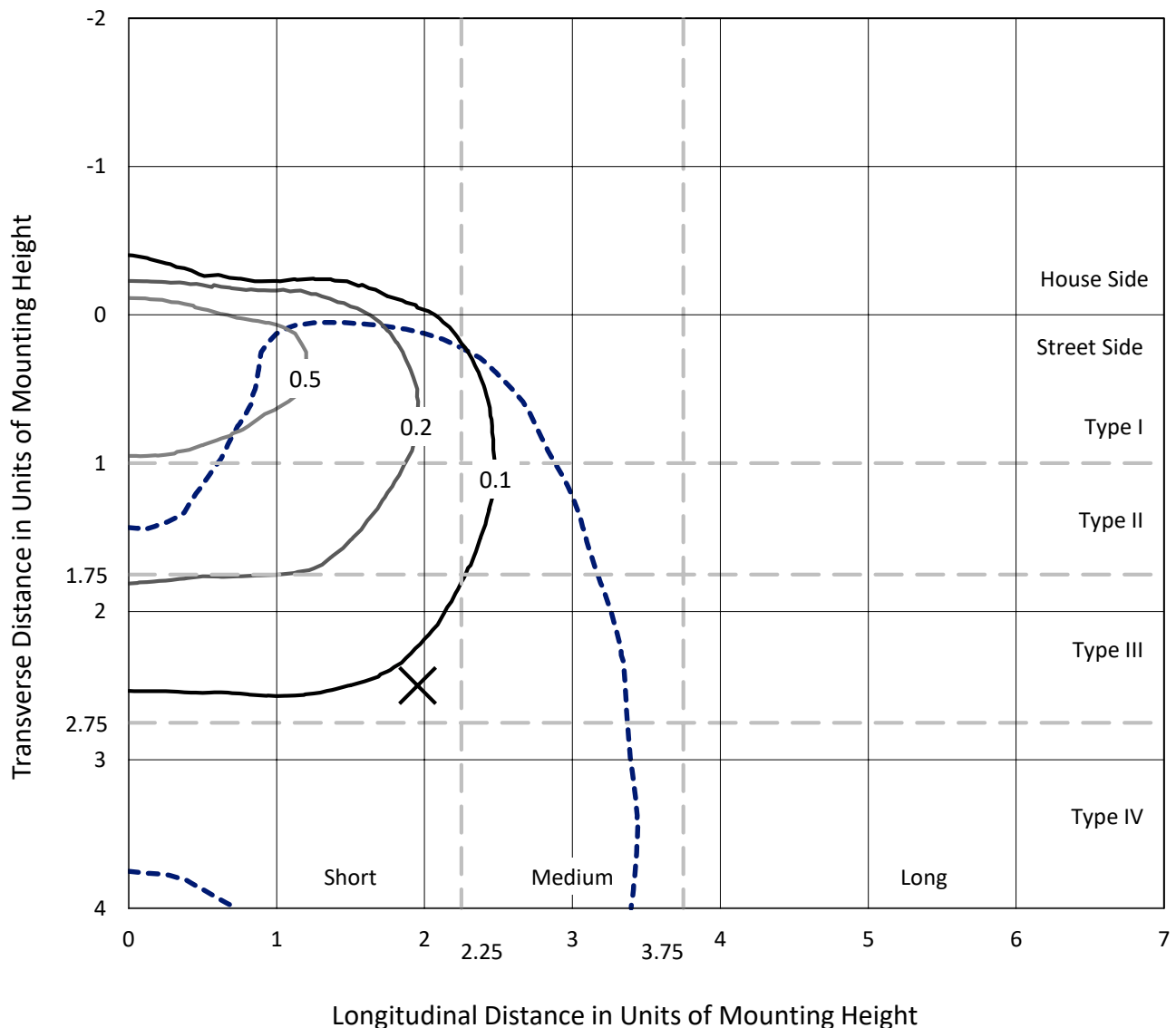
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

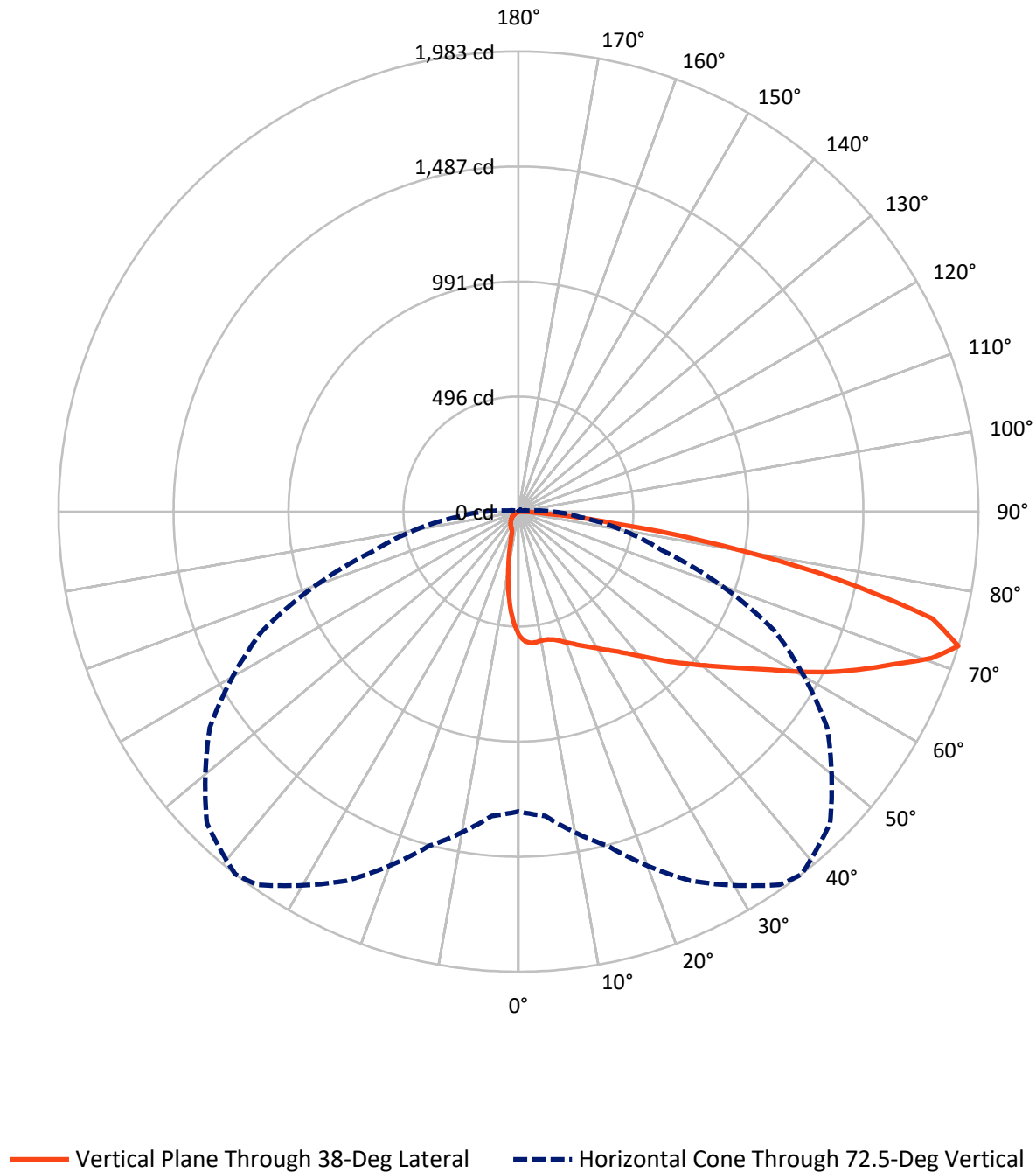
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.9 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	245.0	0.0	245.0
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	2666.0	0.0	2666.0
	% Fixture	91.6	0.0	91.6
Total	Lumens	2911.0	0.0	2911.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.6	1.6
10°-20°	111.6	3.8
20°-30°	177.4	6.1
30°-40°	266.7	9.2
40°-50°	406.9	14.0
50°-60°	575.1	19.8
60°-70°	721.4	24.8
70°-80°	539.4	18.5
80°-90°	66.9	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°	2911.0	100.0
0°-180°	2911.0	100.0

Coefficient of Utilization



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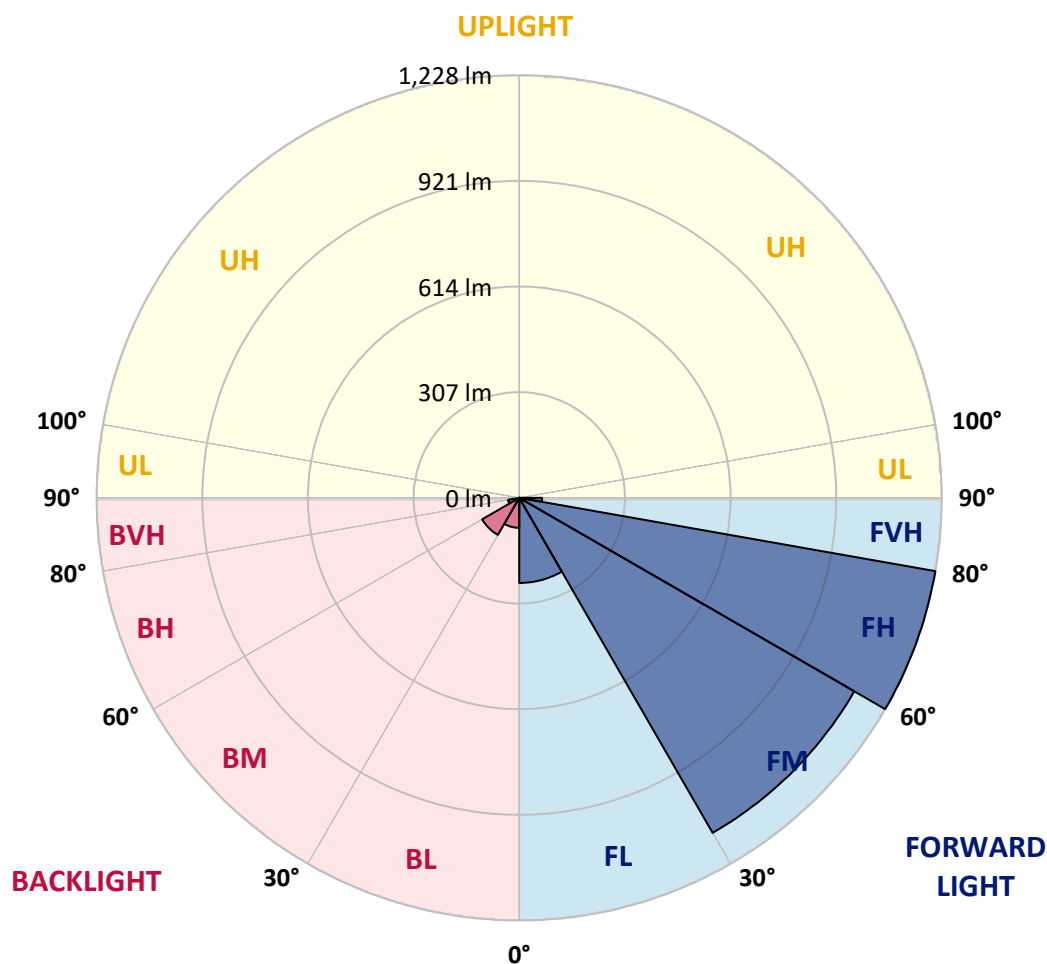
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	247.4	8.5			
FM	(30°-60°)	1124.4	38.6			
FH	(60°-80°)	1228.0	42.2			G1/1800
FVH	(80°-90°)	66.3	2.3			G1/100
BL	(0°-30°)	87.2	3.0	B0/110		
BM	(30°-60°)	124.4	4.3	B0/220		
BH	(60°-80°)	32.7	1.1	B0/110		G0/110
BVH	(80°-90°)	0.6	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°	535.3	535.3	535.3	535.3	535.3	535.3	535.3	535.3	535.3	535.3	535.3
2.5°	568.2	568.3	567.0	564.8	562.0	560.6	558.2	554.3	550.2	542.8	534.8
5°	579.8	579.8	578.1	575.2	570.7	569.4	564.8	558.7	550.2	538.2	524.8
7.5°	578.6	578.8	576.5	573.5	569.1	567.8	562.3	555.4	544.9	530.4	513.2
10°	572.3	572.9	571.1	569.7	565.5	564.2	559.0	552.1	541.6	526.1	506.4
12.5°	565.9	566.5	567.1	568.4	565.9	565.4	561.3	555.5	545.5	529.4	507.2
15°	561.8	563.0	567.4	572.6	573.2	572.7	570.0	564.6	554.4	537.7	512.4
17.5°	561.8	563.7	572.8	582.7	586.2	586.6	584.3	576.7	564.6	546.7	517.2
20°	566.5	569.2	583.3	597.3	603.1	603.1	598.7	588.0	573.9	554.8	520.5
22.5°	578.6	582.1	599.9	616.1	622.2	620.9	614.9	599.4	583.6	564.0	524.6
25°	602.4	605.1	623.6	639.9	643.6	640.6	633.0	613.2	595.9	576.4	532.1
27.5°	633.1	633.5	652.6	666.4	664.1	662.0	652.5	630.5	613.7	594.2	545.0
30°	666.9	666.9	683.7	694.2	687.2	685.5	675.9	651.4	636.4	618.4	563.4
32.5°	699.5	700.9	714.6	721.3	713.4	711.7	702.4	677.9	666.6	655.3	592.0
35°	731.1	732.1	745.1	748.7	741.2	741.7	735.0	714.2	710.0	708.6	635.2
37.5°	761.6	761.9	775.1	777.4	773.6	777.7	778.3	759.9	767.8	779.5	696.0
40°	789.6	789.8	802.9	808.8	815.2	820.5	825.2	815.4	841.4	868.6	768.4
42.5°	811.9	814.5	831.0	842.3	859.2	869.4	882.2	881.7	929.1	969.9	855.9
45°	831.6	836.0	859.1	878.8	907.8	924.0	944.1	959.8	1027.7	1082.7	944.6
47.5°	857.6	861.7	888.1	920.4	959.1	980.3	1013.6	1047.6	1136.2	1193.5	1031.1
50°	894.3	892.4	918.4	964.7	1014.4	1042.4	1089.7	1140.6	1243.8	1290.0	1082.0
52.5°	933.3	932.6	951.8	1013.0	1079.7	1112.4	1175.0	1236.9	1346.7	1356.4	1105.3
55°	981.7	976.5	992.7	1068.0	1157.2	1192.3	1266.0	1332.1	1428.6	1393.9	1117.1
57.5°	1032.3	1023.7	1039.2	1129.3	1244.6	1286.1	1366.8	1425.0	1483.1	1419.5	1116.9
60°	1084.7	1074.5	1092.9	1205.9	1353.2	1401.2	1476.1	1487.7	1534.0	1432.5	1108.7
62.5°	1128.4	1122.4	1149.7	1287.9	1474.4	1521.6	1558.7	1544.8	1577.0	1442.5	1089.5
65°	1174.7	1175.1	1219.2	1383.5	1603.3	1635.1	1638.2	1618.8	1612.9	1440.5	1024.5
67.5°	1237.4	1243.2	1316.8	1513.4	1728.7	1753.2	1753.0	1698.9	1639.1	1358.7	880.2
70°	1303.6	1317.3	1429.2	1661.9	1865.5	1890.4	1877.6	1750.0	1543.3	1098.7	623.0
72.5°	1292.5	1316.2	1491.7	1755.6	1963.8	1982.8	1899.5	1624.6	1219.8	638.6	265.2
75°	997.1	1024.6	1367.8	1662.8	1860.7	1843.6	1632.1	1264.2	666.6	178.2	59.7
77.5°	526.7	541.4	903.6	1266.7	1450.9	1415.2	1149.7	701.3	203.2	44.1	26.8
80°	275.9	279.3	393.8	718.7	895.5	895.7	681.4	308.0	83.8	22.6	18.0
82.5°	147.7	150.6	208.1	332.1	469.2	425.3	260.9	169.5	48.7	12.8	17.3
85°	35.5	36.1	118.0	151.7	184.5	131.8	77.5	142.3	13.2	7.5	14.0
87.5°	13.7	13.9	43.8	65.6	47.0	30.5	36.3	53.1	1.7	2.9	2.2
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°	535.3	535.3	535.3	535.3	535.3	535.3	535.3	535.3	535.3	535.3	535.3
2.5°	530.0	526.9	519.1	509.3	500.6	494.3	484.9	478.7	474.6	474.5	472.9
5°	516.6	510.2	493.5	473.7	455.7	439.5	420.4	405.2	394.0	392.2	388.3
7.5°	502.2	491.7	466.1	435.1	404.9	374.2	338.5	316.4	297.4	288.3	287.4
10°	493.4	478.6	442.2	397.5	350.1	300.2	253.5	221.2	197.9	191.3	186.3
12.5°	491.6	472.1	423.9	362.2	294.5	228.5	176.9	142.5	123.9	118.0	116.4
15°	493.4	469.1	408.4	327.3	238.2	162.1	118.7	98.8	91.8	90.1	89.9
17.5°	494.5	465.4	390.9	288.5	183.5	115.8	90.9	85.1	84.0	83.9	84.1
20°	494.3	459.9	369.9	245.2	136.5	91.0	82.2	81.0	80.8	80.9	80.8
22.5°	493.5	453.4	347.0	200.6	103.1	81.4	78.5	77.7	77.6	77.6	77.6
25°	495.1	448.2	321.7	157.9	85.0	76.9	75.1	74.5	74.4	74.4	74.1
27.5°	500.7	445.3	294.0	121.5	76.8	72.9	71.4	71.3	71.0	70.8	71.1
30°	509.9	445.3	263.7	94.5	71.8	68.8	67.7	67.5	67.3	67.2	67.3
32.5°	526.1	448.6	230.5	78.6	67.1	64.2	63.5	63.8	63.5	63.5	63.5
35°	555.4	458.8	195.8	68.5	62.1	59.7	59.0	59.5	59.2	59.2	59.1
37.5°	598.1	477.7	160.9	62.5	57.8	55.2	54.3	55.0	54.8	54.8	54.6
40°	650.1	505.1	127.7	57.9	53.6	50.9	50.1	50.4	49.8	49.8	50.1
42.5°	714.2	539.9	98.7	53.4	49.3	46.8	46.3	45.9	44.9	44.2	44.4
45°	785.6	576.2	76.9	49.1	45.3	43.3	42.6	41.6	39.8	38.6	38.7
47.5°	849.3	604.1	62.5	44.9	41.7	40.1	39.0	37.2	34.6	33.1	33.2
50°	882.8	608.3	53.2	40.6	38.3	36.8	35.2	32.4	29.3	27.7	27.6
52.5°	891.4	588.5	46.3	36.8	34.9	33.1	31.1	27.3	23.8	22.1	21.9
55°	894.5	558.3	40.1	33.1	31.3	29.3	26.6	22.4	19.1	17.4	17.3
57.5°	884.1	513.2	35.3	29.9	27.7	25.1	21.9	17.9	14.7	13.4	13.4
60°	861.0	452.1	31.6	26.4	23.9	21.0	17.7	13.9	11.0	9.9	9.9
62.5°	815.0	373.1	28.0	22.7	20.4	17.4	14.3	10.5	7.7	7.1	7.3
65°	728.0	283.0	24.5	19.5	17.4	14.4	11.1	7.5	5.2	5.2	5.4
67.5°	593.7	196.6	20.9	16.6	15.0	11.7	8.5	5.2	3.6	4.1	4.6
70°	393.0	110.3	17.9	13.7	12.8	9.3	6.3	3.5	2.9	3.9	4.7
72.5°	148.3	42.9	15.0	11.0	11.1	7.1	4.5	2.7	2.7	4.2	5.6
75°	41.3	21.0	10.8	8.1	8.7	5.2	3.3	2.3	2.5	4.8	6.5
77.5°	24.3	15.5	7.0	4.7	5.9	3.6	2.2	1.8	2.2	4.1	6.3
80°	19.6	8.2	4.1	2.4	3.3	2.1	1.5	1.1	0.6	1.6	3.3
82.5°	19.6	5.0	1.9	1.7	1.7	1.1	0.7	0.5	0.1	0.0	0.8
85°	13.2	2.1	1.2	1.1	0.8	0.4	0.2	0.1	0.0	0.0	0.0
87.5°	2.2	0.8	0.5	0.2	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)