

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: P324715

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324715
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-727-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 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: 4097 lumens
Efficiency: N/A
Efficacy: 93.1 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

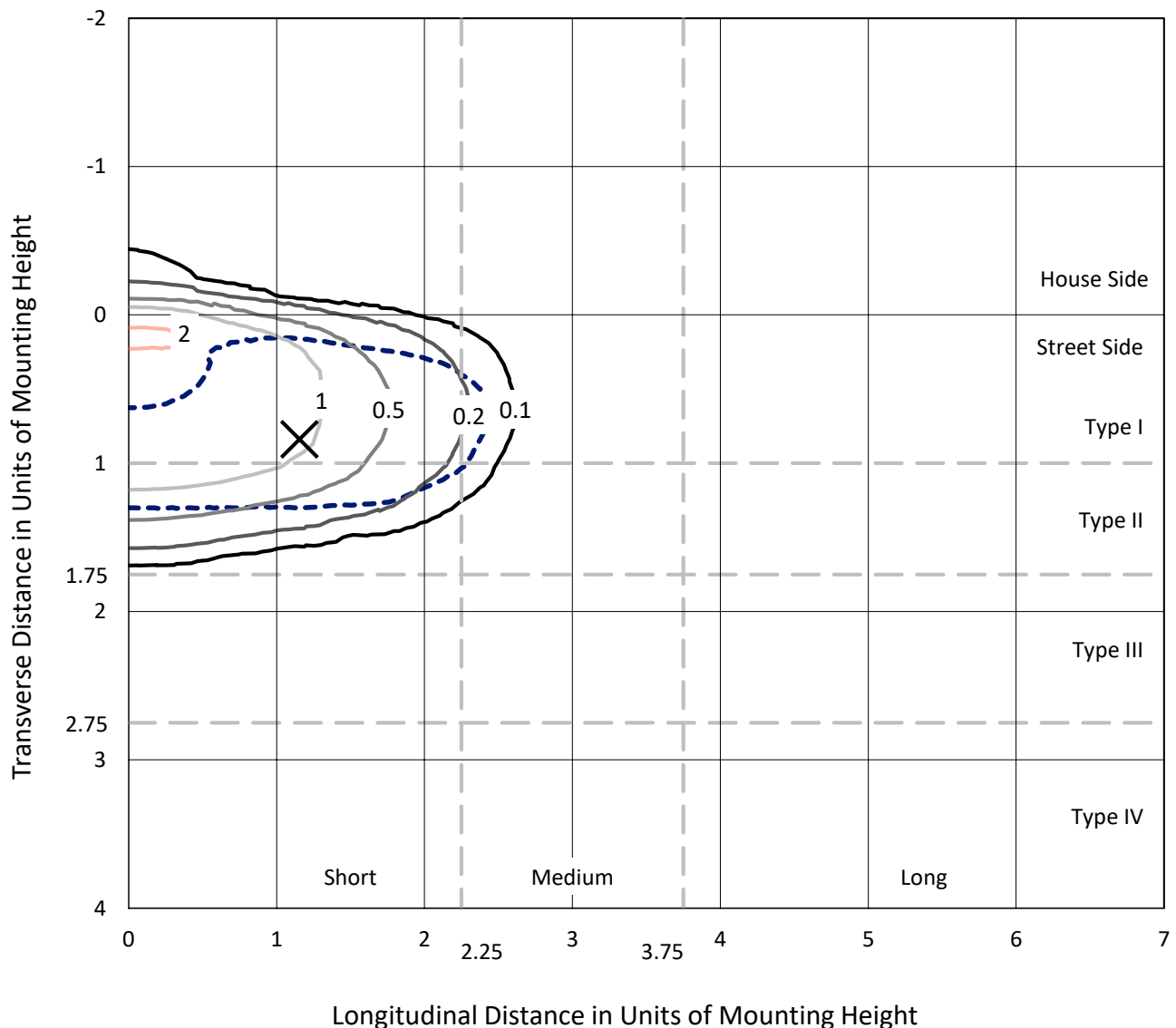
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P324715
CATALOG NUMBER: GAN-SA1B-727-U-AFL-HSS

Iso-Footcandle Lines of Horizontal Illumination

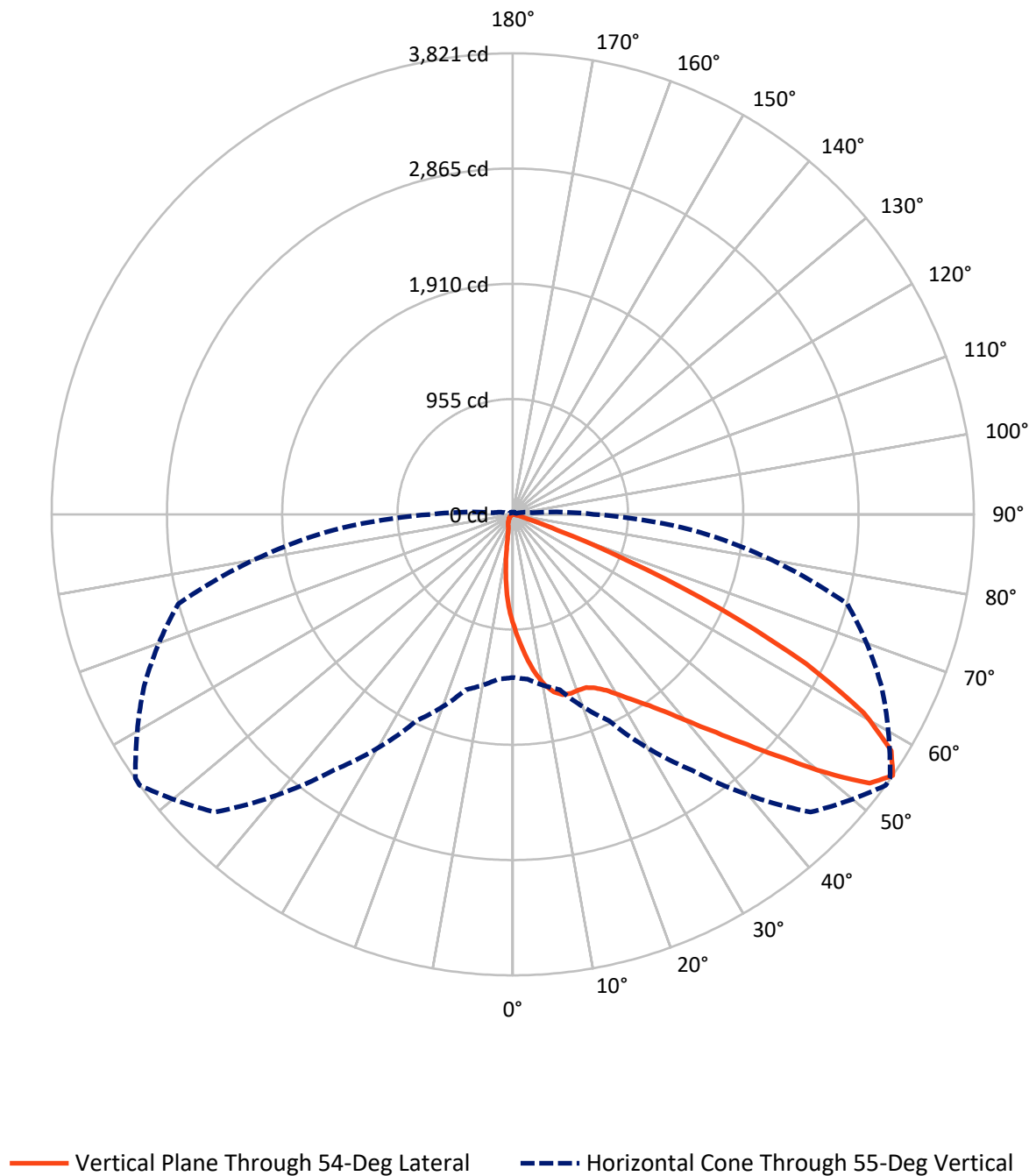
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
Type II - Short - N/A

REPORT NUMBER: P324715
CATALOG NUMBER: GAN-SA1B-727-U-AFL-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P324715

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	204.4	0.0	204.4
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	3892.6	0.0	3892.6
	% Fixture	95.0	0.0	95.0
Total	Lumens	4097.0	0.0	4097.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.5	2.1
10°-20°	231.7	5.7
20°-30°	395.7	9.7
30°-40°	635.0	15.5
40°-50°	1014.7	24.8
50°-60°	1087.2	26.5
60°-70°	558.2	13.6
70°-80°	84.6	2.1
80°-90°	5.5	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°	4097.0	100.0
0°-180°	4097.0	100.0

Coefficient of Utilization



REPORT NUMBER: P324715

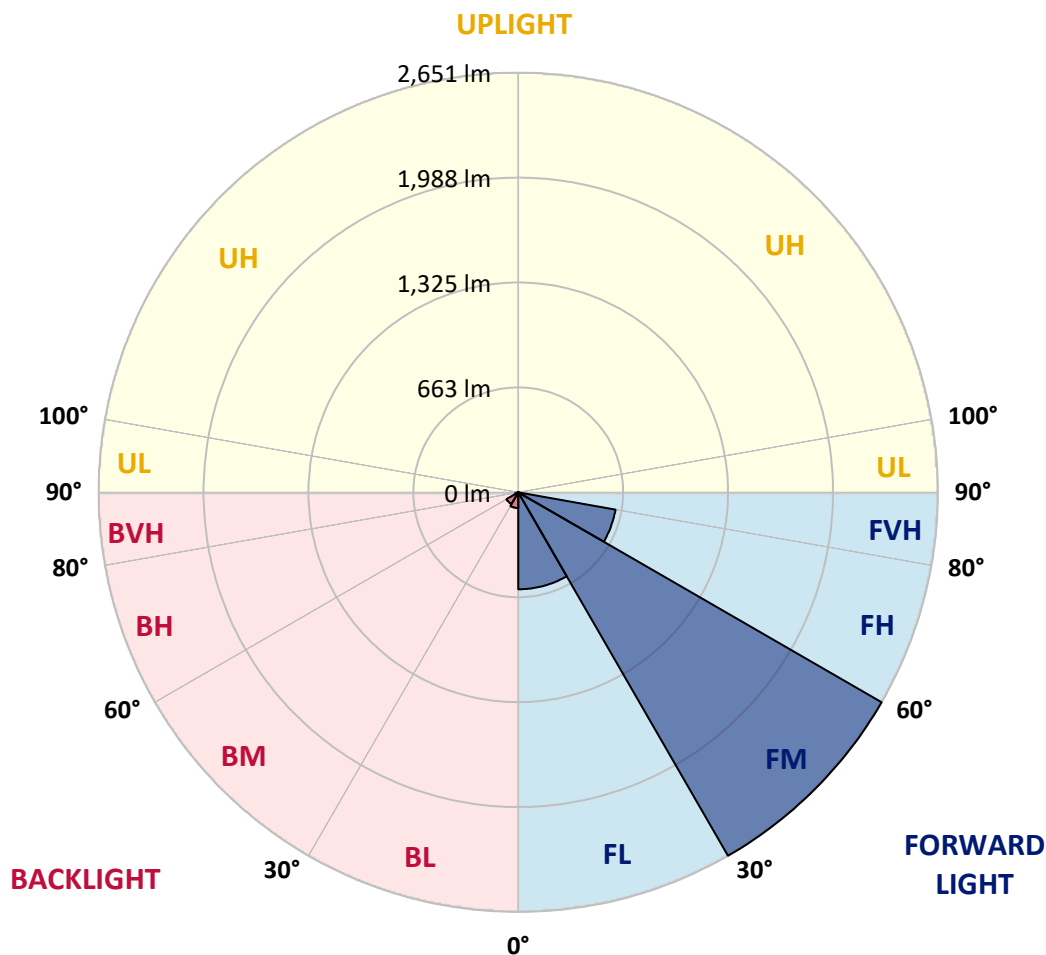
CATALOG NUMBER: GAN-SA1B-727-U-AFL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	612.4	14.9			
FM	(30°-60°)	2650.9	64.7			
FH	(60°-80°)	623.9	15.2			G0/660
FVH	(80°-90°)	5.3	0.1			G0/10
BL	(0°-30°)	99.5	2.4	B0/110		
BM	(30°-60°)	85.9	2.1	B0/220		
BH	(60°-80°)	18.8	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





REPORT NUMBER: P324715

CATALOG NUMBER: GAN-SA1B-727-U-AFL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	917.6	917.6	917.6	917.6	917.6	917.6	917.6	917.6	917.6	917.6	917.6
2.5°	1151.5	1134.3	1134.8	1127.0	1098.6	1076.3	1053.1	1047.6	1011.5	973.7	937.2
5°	1350.5	1338.0	1334.9	1319.9	1280.3	1238.3	1193.4	1183.0	1112.4	1034.9	958.6
7.5°	1452.8	1453.0	1450.5	1445.0	1420.2	1379.5	1324.7	1313.7	1217.6	1101.4	980.9
10°	1423.1	1429.8	1443.6	1461.8	1480.7	1475.6	1434.4	1424.5	1320.1	1171.8	1005.7
12.5°	1353.7	1354.6	1370.0	1399.9	1454.4	1510.3	1511.0	1507.6	1417.9	1245.4	1032.9
15°	1319.2	1322.6	1328.2	1347.5	1399.2	1488.7	1552.7	1557.5	1507.6	1323.6	1061.9
17.5°	1341.8	1346.6	1341.8	1344.1	1374.0	1454.5	1560.0	1572.2	1586.0	1400.9	1089.4
20°	1403.2	1407.7	1399.2	1389.8	1395.6	1444.6	1554.9	1571.3	1647.4	1469.6	1112.4
22.5°	1486.0	1487.8	1474.9	1459.5	1455.3	1478.3	1559.1	1576.1	1696.6	1531.7	1126.9
25°	1577.2	1578.8	1562.7	1545.0	1534.9	1544.3	1594.0	1606.7	1739.9	1591.0	1135.2
27.5°	1676.4	1677.8	1657.7	1635.9	1624.2	1624.6	1651.5	1665.1	1786.1	1658.6	1141.9
30°	1781.3	1780.6	1762.1	1731.8	1716.9	1716.6	1734.3	1748.1	1853.0	1745.2	1151.1
32.5°	1899.2	1897.8	1871.4	1833.9	1817.1	1819.6	1835.3	1843.3	1936.0	1837.6	1167.6
35°	2054.3	2050.3	2010.5	1963.9	1933.0	1932.1	1945.4	1951.7	2041.8	1949.4	1195.0
37.5°	2255.7	2252.0	2198.0	2130.4	2086.9	2070.6	2086.4	2094.5	2192.7	2092.9	1239.0
40°	2454.2	2450.5	2418.5	2356.5	2289.5	2250.4	2262.8	2271.4	2381.1	2267.0	1294.6
42.5°	2591.2	2594.3	2605.5	2610.6	2547.8	2465.7	2471.4	2480.4	2579.1	2453.1	1358.1
45°	2627.2	2634.1	2697.1	2820.8	2844.3	2780.3	2721.0	2726.0	2780.3	2639.3	1421.6
47.5°	2518.8	2531.5	2653.1	2883.1	3082.3	3127.6	3015.4	3008.9	2973.3	2789.8	1466.8
50°	2272.3	2284.0	2441.5	2781.7	3154.5	3459.2	3368.2	3348.9	3142.6	2879.9	1482.7
52.5°	1915.6	1929.8	2057.7	2462.5	3018.4	3607.1	3702.3	3686.2	3266.9	2887.0	1485.3
55°	1352.8	1370.0	1505.3	1887.3	2587.3	3489.4	3820.6	3815.9	3370.0	2868.2	1491.0
57.5°	760.3	772.7	918.6	1209.9	1894.9	3039.3	3697.0	3728.6	3432.3	2835.7	1499.5
60°	337.6	340.9	416.5	602.3	1109.4	2322.7	3342.9	3396.4	3378.8	2792.1	1513.8
62.5°	187.2	184.4	184.4	250.4	482.1	1437.9	2726.0	2814.3	3150.8	2740.7	1514.5
65°	146.7	144.0	136.4	137.5	183.7	638.2	1887.7	2044.6	2717.7	2589.7	1463.6
67.5°	124.4	122.1	114.5	111.5	114.1	210.5	1037.2	1200.1	2062.1	2197.5	1267.7
70°	105.1	103.5	99.6	95.9	89.2	104.0	396.9	507.6	1270.7	1461.8	865.4
72.5°	84.6	83.9	85.3	82.1	74.0	69.4	135.7	164.4	570.8	652.3	356.5
75°	72.9	72.5	73.2	70.1	60.9	48.3	69.0	75.4	161.0	159.6	72.2
77.5°	47.4	47.9	60.7	59.3	52.4	32.2	35.7	38.6	48.8	36.6	21.9
80°	30.3	29.9	30.8	49.2	47.1	24.6	17.9	18.8	23.5	18.0	10.6
82.5°	18.4	18.0	20.2	23.0	23.7	17.2	11.0	11.1	14.7	11.7	5.7
85°	1.6	2.1	12.2	11.3	8.1	5.3	5.3	5.7	7.8	6.9	3.2
87.5°	0.0	0.0	2.1	3.2	1.8	1.9	1.9	2.1	3.0	3.0	1.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P324715

CATALOG NUMBER: GAN-SA1B-727-U-AFL-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	917.6	917.6	917.6	917.6	917.6	917.6	917.6	917.6	917.6	917.6	917.6
2.5°	918.3	899.9	862.7	827.0	796.7	767.5	734.3	701.4	686.0	679.8	673.4
5°	919.9	882.0	805.4	728.2	648.3	576.3	514.9	451.9	420.4	406.6	400.2
7.5°	922.0	864.3	740.5	610.9	482.1	384.5	299.2	244.3	220.6	216.9	207.7
10°	922.3	842.9	665.1	481.4	323.3	231.8	178.3	150.0	139.6	137.8	134.8
12.5°	923.0	817.6	581.4	356.5	215.5	155.0	129.0	119.6	116.8	116.6	116.6
15°	925.2	791.1	494.5	256.9	154.8	122.8	113.2	109.5	108.5	109.0	108.8
17.5°	925.2	759.7	409.2	191.4	125.1	110.4	105.1	102.6	102.3	102.8	103.0
20°	918.4	721.7	331.0	149.0	110.9	102.4	97.7	95.4	94.5	94.8	95.0
22.5°	902.3	675.0	267.3	123.3	101.6	95.2	90.1	86.5	85.1	85.3	85.3
25°	877.2	619.6	209.1	106.7	94.0	87.4	81.4	77.3	76.4	76.3	76.6
27.5°	845.0	558.4	166.5	94.0	84.9	78.7	72.7	69.4	68.6	68.8	69.0
30°	813.4	494.9	131.3	83.2	74.8	69.0	64.4	62.8	62.8	63.3	63.5
32.5°	784.3	433.8	103.9	73.8	65.8	60.5	57.9	57.7	58.6	58.9	59.1
35°	759.4	377.4	86.0	66.5	58.7	54.1	53.3	54.0	55.0	55.7	55.9
37.5°	741.7	327.0	75.2	60.5	53.3	49.5	49.4	50.8	52.2	53.8	54.1
40°	734.3	284.3	67.8	55.2	48.8	46.0	45.5	47.4	50.1	52.4	52.7
42.5°	728.1	249.5	61.4	50.1	45.3	41.2	41.0	43.5	46.7	49.0	49.5
45°	722.8	221.5	55.6	44.6	40.7	35.4	35.9	39.1	41.6	44.1	44.6
47.5°	711.8	198.5	49.2	38.7	33.6	30.3	31.3	34.1	36.1	39.8	40.3
50°	692.2	179.8	42.6	31.7	27.4	26.2	27.8	29.7	32.2	35.4	35.7
52.5°	678.9	165.6	37.0	26.5	22.6	23.0	24.6	25.3	26.7	28.0	27.6
55°	671.3	157.8	32.4	23.0	19.3	20.3	20.7	19.8	19.1	17.9	17.3
57.5°	670.4	150.7	28.8	20.0	17.0	17.5	16.3	13.3	10.8	9.4	9.0
60°	669.0	142.1	26.0	16.8	15.0	14.3	11.7	7.3	5.1	4.8	4.8
62.5°	653.6	128.6	23.9	14.2	12.7	10.8	6.7	3.4	2.8	3.0	3.0
65°	604.6	109.9	21.8	11.5	10.1	7.8	3.4	1.9	1.1	1.2	1.2
67.5°	514.0	87.6	19.5	8.8	7.6	5.0	1.9	0.9	0.0	0.0	0.0
70°	344.1	54.3	16.5	6.2	5.0	3.0	1.4	0.2	0.0	0.0	0.0
72.5°	132.0	29.4	13.3	3.7	3.2	2.1	0.9	0.0	0.0	0.0	0.0
75°	29.7	19.3	9.2	2.7	2.3	1.4	0.4	0.0	0.0	0.0	0.0
77.5°	11.3	14.0	5.3	1.8	1.6	0.9	0.0	0.0	0.0	0.0	0.0
80°	5.5	8.3	2.5	1.1	0.9	0.4	0.0	0.0	0.0	0.0	0.0
82.5°	2.8	3.2	1.1	0.5	0.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	1.6	1.6	0.5	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.9	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)