

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: P324725

Luminaire Tested: **GAN-SA1C-727-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324725
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-SA1C-727-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 1050mA 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: 5069 lumens
Efficiency: N/A
Efficacy: 85.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

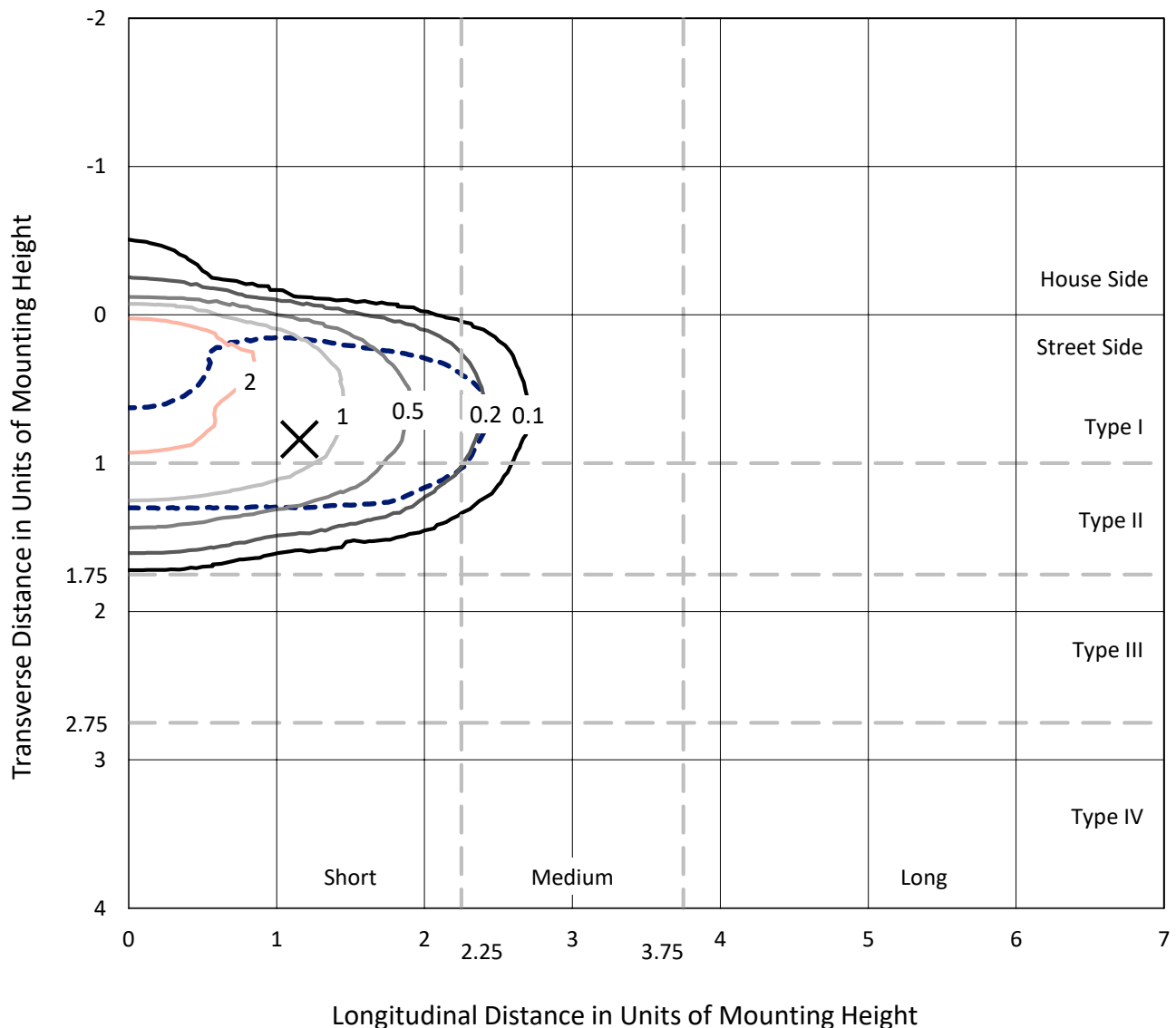
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

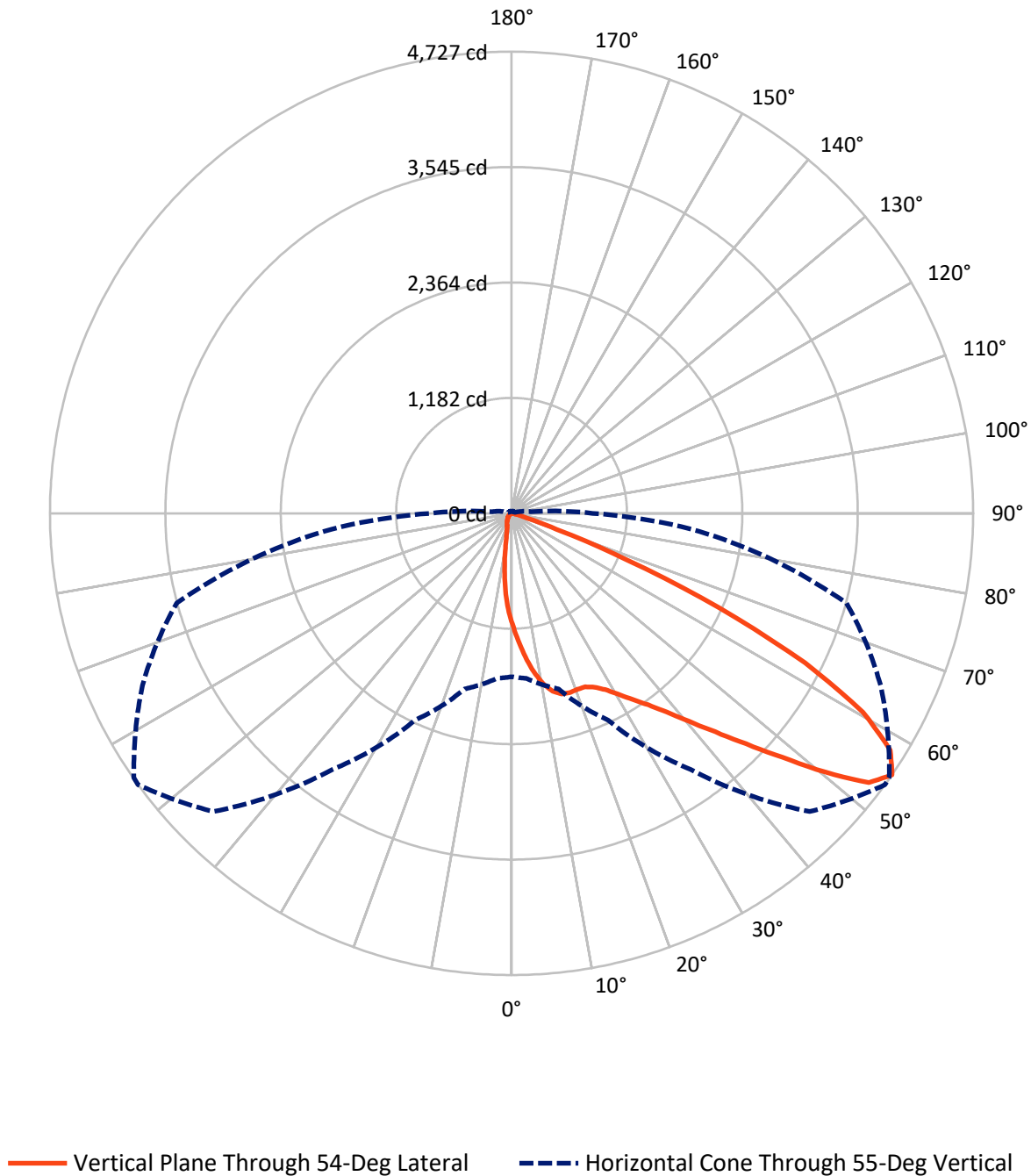
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 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	252.9	0.0	252.9
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	4816.1	0.0	4816.1
	% Fixture	95.0	0.0	95.0
Total	Lumens	5069.0	0.0	5069.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.5	2.1
10°-20°	286.7	5.7
20°-30°	489.5	9.7
30°-40°	785.6	15.5
40°-50°	1255.4	24.8
50°-60°	1345.2	26.5
60°-70°	690.6	13.6
70°-80°	104.6	2.1
80°-90°	6.8	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°	5069.0	100.0
0°-180°	5069.0	100.0

Coefficient of Utilization



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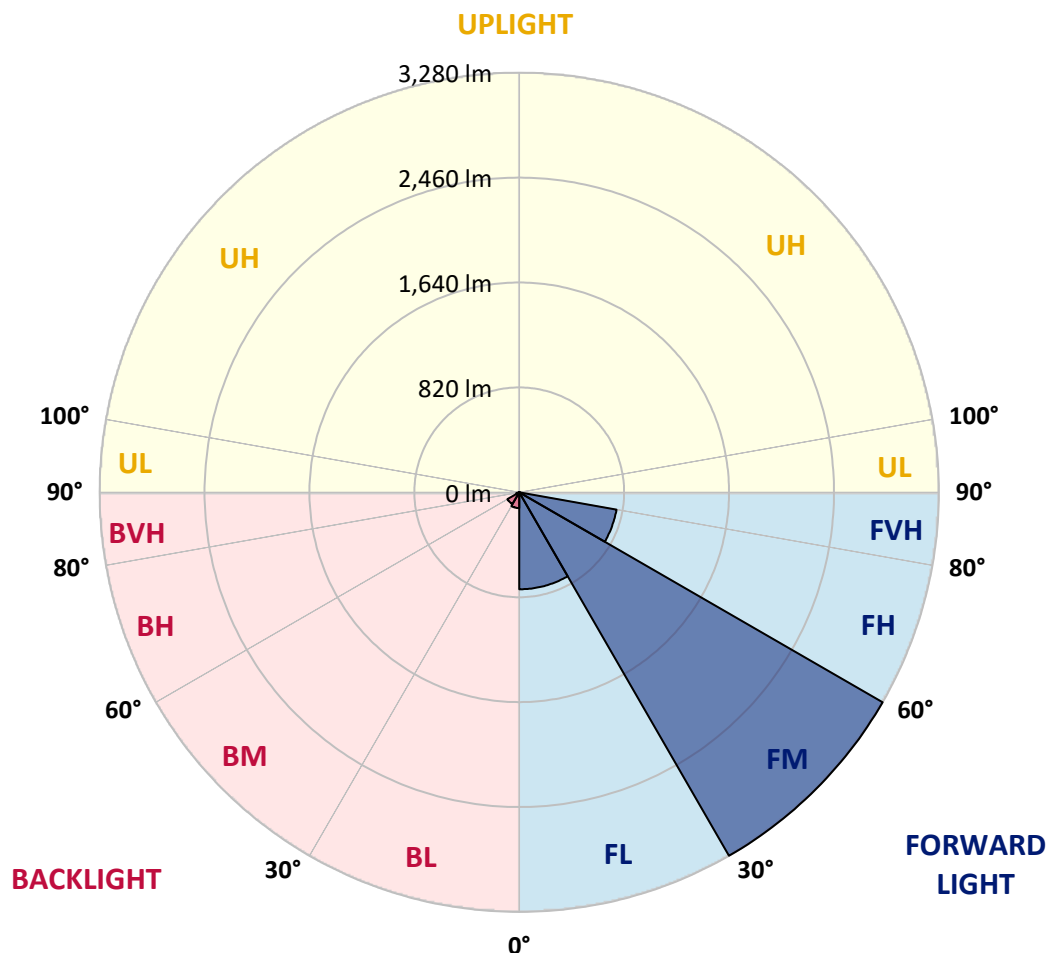
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	757.7	14.9			
FM	(30°-60°)	3279.9	64.7			
FH	(60°-80°)	772.0	15.2			G1/1800
FVH	(80°-90°)	6.5	0.1			G0/10
BL	(0°-30°)	123.0	2.4	B1/500		
BM	(30°-60°)	106.3	2.1	B0/220		
BH	(60°-80°)	23.3	0.5	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: B1-U0-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	1135.3	1135.3	1135.3	1135.3	1135.3	1135.3	1135.3	1135.3	1135.3	1135.3	1135.3
2.5°	1424.6	1403.4	1404.1	1394.4	1359.2	1331.6	1302.9	1296.1	1251.5	1204.6	1159.6
5°	1670.9	1655.4	1651.7	1633.0	1584.0	1532.1	1476.5	1463.6	1376.3	1280.4	1186.0
7.5°	1797.4	1797.7	1794.6	1787.8	1757.2	1706.8	1639.0	1625.4	1506.5	1362.7	1213.6
10°	1760.7	1769.0	1786.1	1808.6	1832.0	1825.7	1774.7	1762.4	1633.3	1449.8	1244.3
12.5°	1674.9	1676.0	1695.0	1732.0	1799.4	1868.6	1869.5	1865.3	1754.3	1540.9	1278.0
15°	1632.2	1636.3	1643.3	1667.2	1731.1	1841.9	1921.1	1927.0	1865.3	1637.6	1313.9
17.5°	1660.2	1666.1	1660.2	1663.0	1700.0	1799.6	1930.1	1945.2	1962.3	1733.3	1347.8
20°	1736.2	1741.6	1731.1	1719.5	1726.7	1787.4	1923.8	1944.1	2038.2	1818.2	1376.3
22.5°	1838.6	1840.8	1824.8	1805.8	1800.5	1829.0	1929.0	1950.0	2099.1	1895.1	1394.2
25°	1951.3	1953.3	1933.4	1911.5	1899.0	1910.6	1972.1	1987.9	2152.7	1968.4	1404.5
27.5°	2074.1	2075.9	2050.9	2024.0	2009.6	2010.0	2043.3	2060.1	2209.9	2052.0	1412.8
30°	2204.0	2203.1	2180.1	2142.7	2124.3	2123.8	2145.7	2162.8	2292.6	2159.3	1424.2
32.5°	2349.7	2348.0	2315.4	2269.0	2248.2	2251.2	2270.7	2280.6	2395.3	2273.6	1444.6
35°	2541.7	2536.7	2487.4	2429.9	2391.6	2390.5	2406.9	2414.8	2526.2	2411.9	1478.5
37.5°	2790.8	2786.3	2719.5	2635.9	2582.0	2561.9	2581.4	2591.4	2712.9	2589.5	1533.0
40°	3036.5	3031.9	2992.2	2915.6	2832.7	2784.3	2799.6	2810.3	2946.1	2804.9	1601.7
42.5°	3205.9	3209.8	3223.6	3230.0	3152.3	3050.7	3057.7	3068.9	3191.0	3035.1	1680.3
45°	3250.6	3259.1	3337.0	3490.0	3519.2	3439.9	3366.6	3372.7	3439.9	3265.4	1758.9
47.5°	3116.4	3132.1	3282.5	3567.1	3813.6	3869.6	3730.8	3722.7	3678.7	3451.7	1814.7
50°	2811.4	2825.9	3020.7	3441.7	3902.9	4279.9	4167.3	4143.5	3888.2	3563.2	1834.4
52.5°	2370.1	2387.6	2545.9	3046.7	3734.6	4462.9	4580.6	4560.7	4041.9	3571.9	1837.7
55°	1673.8	1695.0	1862.5	2335.1	3201.1	4317.3	4727.1	4721.2	4169.5	3548.7	1844.7
57.5°	940.6	956.0	1136.6	1496.9	2344.5	3760.4	4574.1	4613.2	4246.6	3508.4	1855.2
60°	417.7	421.8	515.3	745.2	1372.5	2873.8	4136.0	4202.1	4180.5	3454.6	1873.0
62.5°	231.6	228.1	228.1	309.8	596.5	1779.1	3372.7	3481.9	3898.3	3390.9	1873.8
65°	181.5	178.2	168.8	170.1	227.2	789.6	2335.5	2529.7	3362.4	3204.1	1810.8
67.5°	153.9	151.0	141.6	137.9	141.2	260.5	1283.2	1484.8	2551.4	2718.8	1568.5
70°	130.0	128.1	123.2	118.6	110.3	128.7	491.0	628.0	1572.2	1808.6	1070.7
72.5°	104.6	103.8	105.5	101.6	91.5	85.8	167.9	203.4	706.2	807.1	441.1
75°	90.2	89.8	90.6	86.7	75.3	59.8	85.4	93.3	199.2	197.5	89.3
77.5°	58.7	59.3	75.1	73.3	64.8	39.8	44.2	47.7	60.4	45.3	27.1
80°	37.4	37.0	38.1	60.9	58.2	30.4	22.1	23.2	29.1	22.3	13.1
82.5°	22.8	22.3	25.0	28.5	29.3	21.2	13.6	13.8	18.2	14.4	7.0
85°	2.0	2.6	15.1	14.0	10.1	6.6	6.6	7.0	9.6	8.5	3.9
87.5°	0.0	0.0	2.6	3.9	2.2	2.4	2.4	2.6	3.7	3.7	2.0
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°	1135.3	1135.3	1135.3	1135.3	1135.3	1135.3	1135.3	1135.3	1135.3	1135.3	1135.3
2.5°	1136.1	1113.4	1067.4	1023.2	985.7	949.6	908.5	867.7	848.7	841.0	833.2
5°	1138.1	1091.3	996.5	901.0	802.1	713.0	637.0	559.1	520.1	503.0	495.2
7.5°	1140.7	1069.4	916.1	755.9	596.5	475.7	370.2	302.3	273.0	268.4	257.0
10°	1141.2	1042.9	822.9	595.6	399.9	286.8	220.7	185.6	172.7	170.5	166.8
12.5°	1142.0	1011.6	719.3	441.1	266.6	191.8	159.6	148.0	144.5	144.3	144.3
15°	1144.7	978.7	611.8	317.9	191.5	151.9	140.1	135.5	134.2	134.8	134.6
17.5°	1144.7	940.0	506.3	236.9	154.8	136.6	130.0	127.0	126.5	127.2	127.4
20°	1136.3	892.9	409.6	184.3	137.3	126.7	120.8	118.0	116.9	117.3	117.6
22.5°	1116.4	835.1	330.8	152.6	125.7	117.8	111.4	107.0	105.3	105.5	105.5
25°	1085.3	766.6	258.7	132.0	116.2	108.1	100.7	95.7	94.6	94.3	94.8
27.5°	1045.5	690.9	206.0	116.2	105.1	97.4	90.0	85.8	84.9	85.2	85.4
30°	1006.3	612.3	162.4	102.9	92.6	85.4	79.7	77.7	77.7	78.4	78.6
32.5°	970.4	536.8	128.5	91.3	81.4	74.9	71.6	71.4	72.5	72.9	73.1
35°	939.5	466.9	106.4	82.3	72.7	67.0	65.9	66.8	68.1	69.0	69.2
37.5°	917.7	404.5	93.0	74.9	65.9	61.3	61.1	62.8	64.6	66.5	67.0
40°	908.5	351.8	83.8	68.3	60.4	56.9	56.3	58.7	62.0	64.8	65.2
42.5°	900.8	308.7	76.0	62.0	56.0	51.0	50.8	53.9	57.8	60.6	61.3
45°	894.2	274.1	68.7	55.2	50.3	43.8	44.4	48.4	51.4	54.5	55.2
47.5°	880.7	245.6	60.9	47.9	41.6	37.4	38.7	42.2	44.7	49.3	49.9
50°	856.4	222.4	52.8	39.2	33.9	32.4	34.4	36.8	39.8	43.8	44.2
52.5°	839.9	204.9	45.8	32.8	28.0	28.5	30.4	31.3	33.1	34.6	34.1
55°	830.5	195.3	40.1	28.5	23.9	25.2	25.6	24.5	23.6	22.1	21.5
57.5°	829.4	186.5	35.7	24.7	21.0	21.7	20.1	16.4	13.4	11.6	11.2
60°	827.7	175.8	32.2	20.8	18.6	17.7	14.4	9.0	6.3	5.9	5.9
62.5°	808.6	159.1	29.6	17.5	15.8	13.4	8.3	4.2	3.5	3.7	3.7
65°	748.0	135.9	26.9	14.2	12.5	9.6	4.2	2.4	1.3	1.5	1.5
67.5°	635.9	108.4	24.1	10.9	9.4	6.1	2.4	1.1	0.0	0.0	0.0
70°	425.8	67.2	20.4	7.7	6.1	3.7	1.8	0.2	0.0	0.0	0.0
72.5°	163.3	36.3	16.4	4.6	3.9	2.6	1.1	0.0	0.0	0.0	0.0
75°	36.8	23.9	11.4	3.3	2.8	1.8	0.4	0.0	0.0	0.0	0.0
77.5°	14.0	17.3	6.6	2.2	2.0	1.1	0.0	0.0	0.0	0.0	0.0
80°	6.8	10.3	3.1	1.3	1.1	0.4	0.0	0.0	0.0	0.0	0.0
82.5°	3.5	3.9	1.3	0.7	0.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.0	2.0	0.7	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.1	0.7	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)