

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: P321526

Luminaire Tested: **GAN-SA2C-727-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321526
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2C-727-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9309 lumens
Efficiency: N/A
Efficacy: 82.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

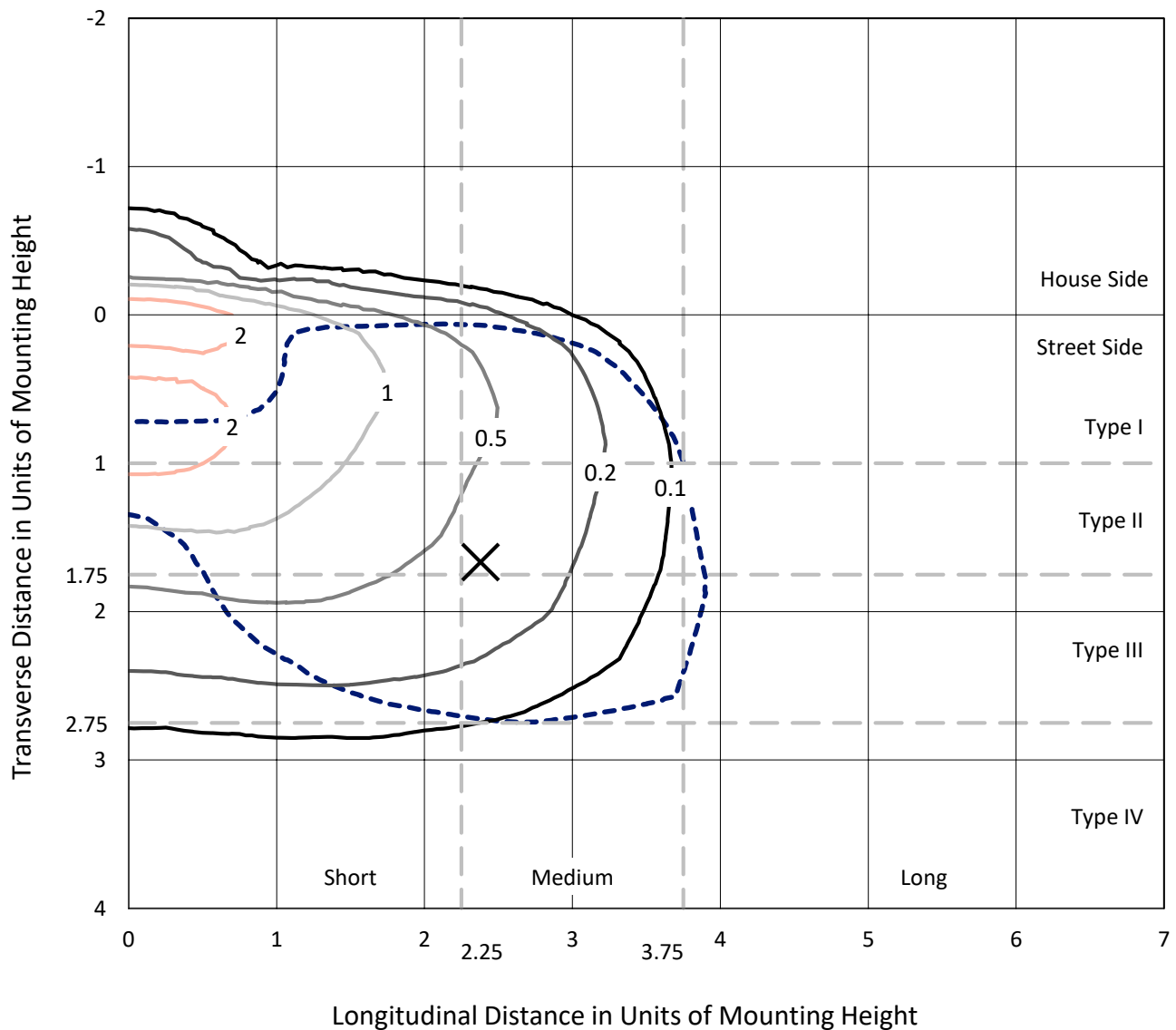
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

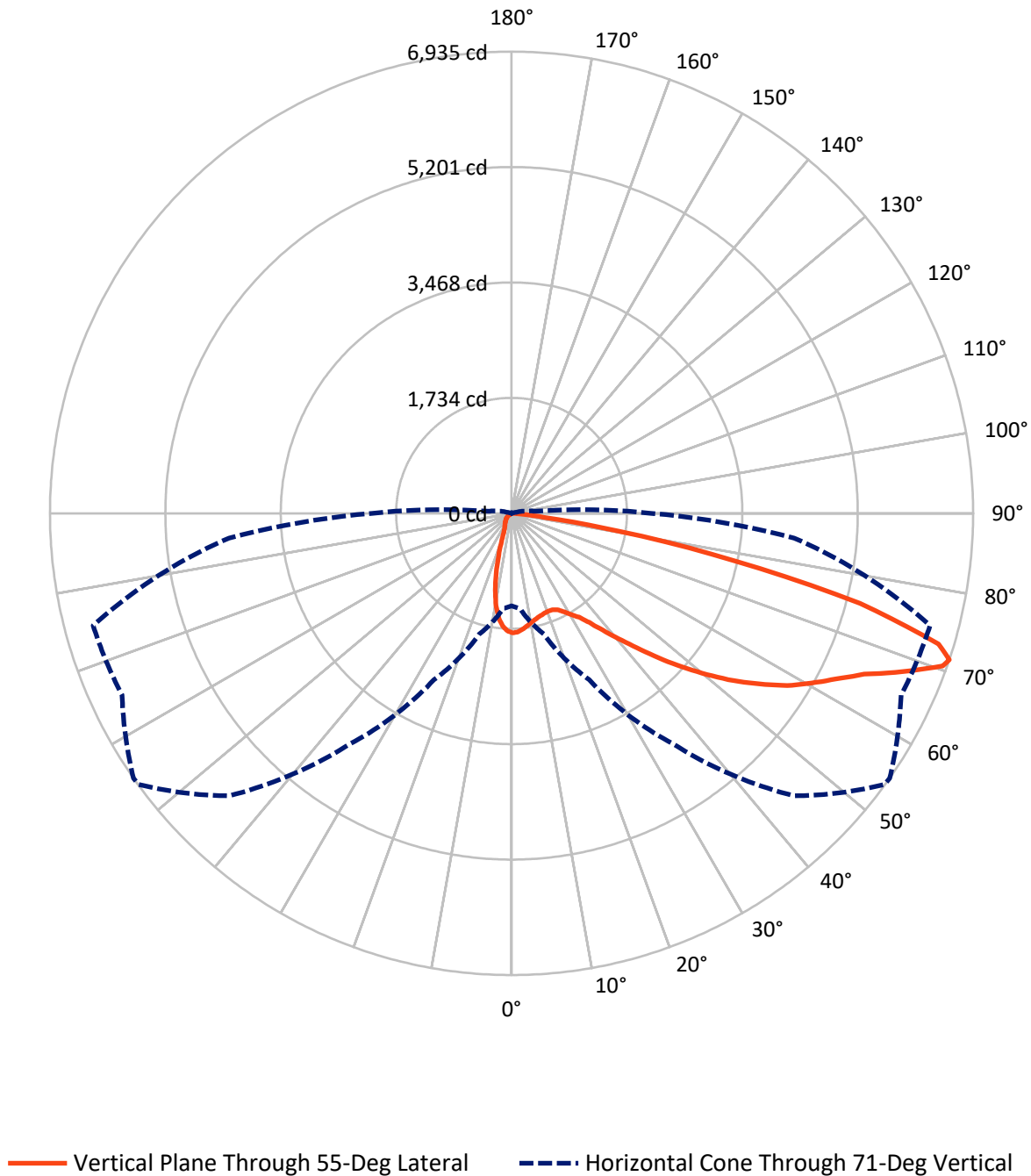
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	737.0	0.0	737.0
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	8572.0	0.0	8572.0
	% Fixture	92.1	0.0	92.1
Total	Lumens	9309.0	0.0	9309.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.1	1.6
10°-20°	345.6	3.7
20°-30°	555.3	6.0
30°-40°	943.6	10.1
40°-50°	1464.5	15.7
50°-60°	1969.0	21.2
60°-70°	2408.7	25.9
70°-80°	1408.3	15.1
80°-90°	60.9	0.7
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°	9309.0	100.0
0°-180°	9309.0	100.0

Coefficient of Utilization



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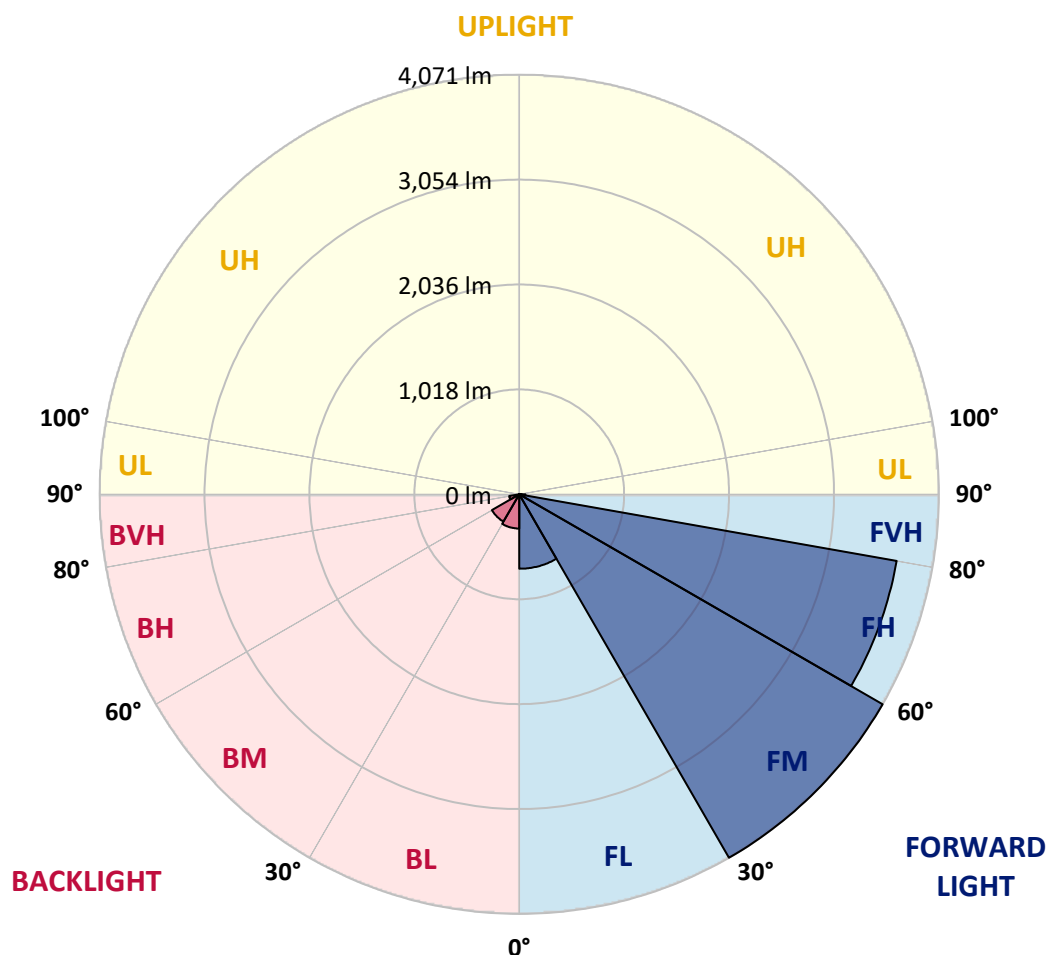
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	722.2	7.8			
FM	(30°-60°)	4071.5	43.7			
FH	(60°-80°)	3718.3	39.9			G2/5000
FVH	(80°-90°)	59.9	0.6			G1/100
BL	(0°-30°)	331.7	3.6	B1/500		
BM	(30°-60°)	305.6	3.3	B1/1000		
BH	(60°-80°)	98.7	1.1	B0/110		G0/110
BVH	(80°-90°)	1.0	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-G2

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	1795.3	1795.3	1795.3	1795.3	1795.3	1795.3	1795.3	1795.3	1795.3	1795.3	1795.3
2.5°	1742.6	1744.7	1752.2	1755.6	1763.5	1776.9	1783.6	1784.0	1794.9	1799.0	1802.4
5°	1619.3	1631.8	1644.4	1657.8	1682.0	1714.2	1746.0	1748.9	1784.0	1809.9	1823.7
7.5°	1513.1	1524.4	1539.5	1560.8	1595.1	1645.6	1698.7	1705.0	1771.4	1830.4	1861.3
10°	1404.0	1413.2	1435.0	1466.3	1513.5	1581.3	1652.7	1663.2	1760.2	1858.0	1912.3
12.5°	1287.4	1292.8	1319.2	1364.3	1433.7	1519.8	1613.9	1627.7	1753.1	1889.7	1972.5
15°	1198.8	1201.3	1226.4	1273.2	1352.6	1464.6	1583.8	1600.5	1754.7	1927.8	2038.1
17.5°	1176.2	1177.5	1190.9	1223.0	1293.3	1415.3	1559.9	1580.4	1759.7	1965.0	2104.2
20°	1267.8	1259.0	1245.2	1240.2	1270.3	1385.6	1545.7	1568.7	1766.4	1998.0	2163.5
22.5°	1519.0	1493.1	1435.8	1359.3	1312.9	1387.7	1549.5	1572.5	1787.8	2038.5	2232.1
25°	1891.8	1855.9	1758.5	1608.0	1463.4	1447.9	1580.8	1604.3	1829.1	2087.0	2297.7
27.5°	2316.1	2280.6	2161.4	1946.6	1700.0	1567.1	1652.7	1674.5	1890.6	2130.1	2347.9
30°	2722.4	2712.3	2571.9	2327.8	1997.6	1760.2	1745.5	1763.9	1936.1	2156.0	2387.6
32.5°	3066.8	3050.9	2938.1	2700.6	2338.2	1992.1	1854.6	1860.1	1970.4	2189.4	2439.4
35°	3386.2	3366.5	3267.4	3043.0	2687.7	2275.5	2022.7	2014.7	2045.2	2256.7	2514.6
37.5°	3665.0	3682.9	3573.0	3359.4	3001.2	2570.2	2249.2	2225.4	2162.3	2366.3	2623.7
40°	3898.2	3898.2	3840.9	3662.9	3339.8	2874.9	2505.4	2474.1	2338.2	2535.1	2762.1
42.5°	3982.2	4000.2	4021.5	3920.8	3642.8	3191.8	2790.9	2758.3	2586.1	2774.6	2936.8
45°	3987.2	4015.6	4124.7	4124.3	3916.6	3506.5	3112.8	3097.3	2903.8	3082.3	3153.3
47.5°	3916.6	3952.1	4131.8	4233.8	4133.5	3799.5	3464.7	3445.5	3277.1	3459.3	3379.9
50°	3807.5	3846.8	4055.8	4276.9	4281.1	4054.5	3835.5	3806.6	3687.9	3890.2	3614.0
52.5°	3612.3	3688.4	3987.6	4286.9	4378.0	4274.8	4188.3	4175.7	4147.7	4305.3	3800.4
55°	3194.7	3279.1	3816.7	4290.3	4467.9	4470.0	4518.9	4522.3	4578.7	4693.2	3939.2
57.5°	2997.4	3045.1	3518.2	4306.1	4601.3	4691.5	4855.8	4881.7	4969.1	5061.5	4097.6
60°	2873.3	2929.7	3371.1	4284.4	4810.7	4982.0	5168.0	5176.8	5270.5	5441.4	4312.0
62.5°	2774.2	2829.8	3278.3	4200.8	5046.0	5331.5	5473.2	5474.0	5544.2	5894.1	4555.7
65°	2529.7	2576.5	3090.6	4106.8	5201.5	5677.2	5827.6	5822.2	5879.5	6371.4	4838.7
67.5°	2176.1	2212.0	2707.3	3750.2	5143.0	5991.5	6362.7	6344.7	6275.3	6784.0	4949.9
70°	1682.4	1695.4	2133.8	3125.3	4594.6	6112.3	6879.7	6870.5	6518.2	6710.0	4542.3
71°	1390.7	1433.3	1880.5	2758.3	4227.1	6000.7	6929.9	6935.3	6457.1	6508.5	4261.8
72.5°	807.6	843.9	1363.1	2118.4	3588.9	5535.0	6669.9	6709.2	6172.1	5920.0	3640.3
75°	173.0	185.2	505.4	1025.3	1974.2	3879.4	5264.6	5404.6	5030.5	4027.3	2194.0
77.5°	120.4	130.0	216.5	465.2	652.5	1916.9	3270.4	3428.4	3005.4	1513.5	702.2
80°	95.3	106.2	168.9	229.9	176.4	618.2	1531.9	1628.5	1002.3	337.7	118.3
82.5°	53.1	63.1	131.7	124.1	67.7	117.5	428.9	484.9	200.6	68.1	28.0
85°	15.5	18.8	84.9	90.3	28.8	22.6	73.1	90.7	38.0	18.0	12.5
87.5°	0.0	0.0	41.0	34.7	8.4	3.3	6.7	7.5	7.5	7.5	8.4
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°	1795.3	1795.3	1795.3	1795.3	1795.3	1795.3	1795.3	1795.3	1795.3	1795.3	1795.3
2.5°	1802.4	1805.3	1794.9	1781.1	1766.4	1748.5	1729.6	1715.0	1714.6	1707.5	1700.4
5°	1824.5	1822.9	1794.0	1750.1	1698.3	1644.4	1593.0	1534.9	1515.6	1491.8	1483.9
7.5°	1865.5	1853.8	1792.8	1696.6	1582.9	1470.1	1353.5	1236.0	1185.8	1140.7	1132.8
10°	1916.9	1894.8	1784.8	1616.4	1407.8	1199.6	1023.7	864.0	793.8	739.8	737.3
12.5°	1970.4	1936.6	1762.7	1495.2	1178.3	885.7	683.0	525.8	467.3	429.7	433.0
15°	2026.4	1975.8	1715.0	1331.7	917.1	601.1	419.7	327.3	303.9	294.3	296.8
17.5°	2083.7	2003.0	1648.6	1134.8	659.2	387.9	290.5	264.6	264.6	266.7	267.5
20°	2133.4	2017.6	1550.7	914.1	446.8	282.6	254.1	250.4	252.5	255.8	256.2
22.5°	2182.8	2018.5	1423.3	690.5	312.7	247.5	242.0	240.3	241.6	245.4	245.8
25°	2222.9	2008.4	1263.6	491.1	249.5	233.2	230.7	229.9	230.7	235.3	235.3
27.5°	2239.2	1972.1	1068.8	345.3	223.6	217.4	216.5	217.4	218.6	222.0	222.4
30°	2240.9	1908.5	856.5	250.0	202.7	196.0	197.7	200.6	199.4	198.5	199.4
32.5°	2245.0	1835.0	649.6	205.7	185.2	174.7	172.6	172.6	167.6	164.7	163.0
35°	2258.8	1748.5	471.1	184.8	167.2	155.1	147.1	137.9	128.3	123.3	122.1
37.5°	2280.6	1657.8	337.3	171.0	151.3	137.5	122.5	106.2	92.4	88.6	88.6
40°	2320.3	1564.1	249.5	160.1	138.8	121.6	99.1	77.7	65.2	63.1	63.1
42.5°	2383.0	1465.5	199.0	150.5	127.9	105.3	75.7	56.4	47.2	46.0	45.6
45°	2448.2	1356.8	173.9	141.3	116.2	86.5	56.0	41.8	36.4	35.1	35.1
47.5°	2513.4	1241.0	161.8	132.5	104.9	67.3	41.8	33.0	30.5	30.5	30.9
50°	2568.6	1120.2	153.0	122.9	90.3	51.0	33.0	28.0	27.2	28.8	29.3
52.5°	2582.4	1001.5	142.1	110.8	72.3	38.9	27.2	24.7	24.7	24.7	24.7
55°	2574.0	909.5	127.9	95.7	53.5	30.9	23.4	21.7	21.3	21.3	21.3
57.5°	2602.4	855.2	102.4	74.4	38.5	25.1	20.5	19.2	18.4	18.0	18.0
60°	2659.7	819.7	73.1	53.5	28.8	20.9	17.6	16.3	15.0	14.2	14.2
62.5°	2735.8	788.8	54.3	39.7	22.2	16.7	14.6	13.4	11.7	10.9	10.9
65°	2794.3	733.6	41.4	29.7	16.7	13.4	11.3	10.9	8.4	7.5	7.1
67.5°	2704.8	612.4	33.4	21.7	12.5	10.4	8.8	8.4	5.0	4.2	4.2
70°	2319.9	426.4	26.8	15.9	9.2	8.4	7.1	5.4	3.8	3.3	3.3
71°	2103.8	356.1	24.2	13.4	7.9	7.9	6.7	4.6	3.3	2.9	2.9
72.5°	1747.6	252.9	20.5	10.4	7.1	8.4	7.1	4.2	3.3	2.9	2.5
75°	1014.5	105.8	14.2	7.1	5.4	10.0	9.2	3.8	2.5	2.1	2.1
77.5°	305.1	38.9	7.9	4.6	4.2	8.8	10.4	3.3	1.3	0.4	0.4
80°	55.6	16.7	5.0	2.9	2.9	5.4	7.9	1.7	0.0	0.0	0.0
82.5°	19.6	8.4	2.9	1.7	1.3	2.5	3.8	0.0	0.0	0.0	0.0
85°	11.3	5.9	1.7	0.8	0.0	0.4	0.8	0.0	0.0	0.0	0.0
87.5°	7.5	1.7	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)