

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: P323316

Luminaire Tested: **GAN-SA2B-827-U-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323316
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-21)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2B-827-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7119 lumens
Efficiency: N/A
Efficacy: 83.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

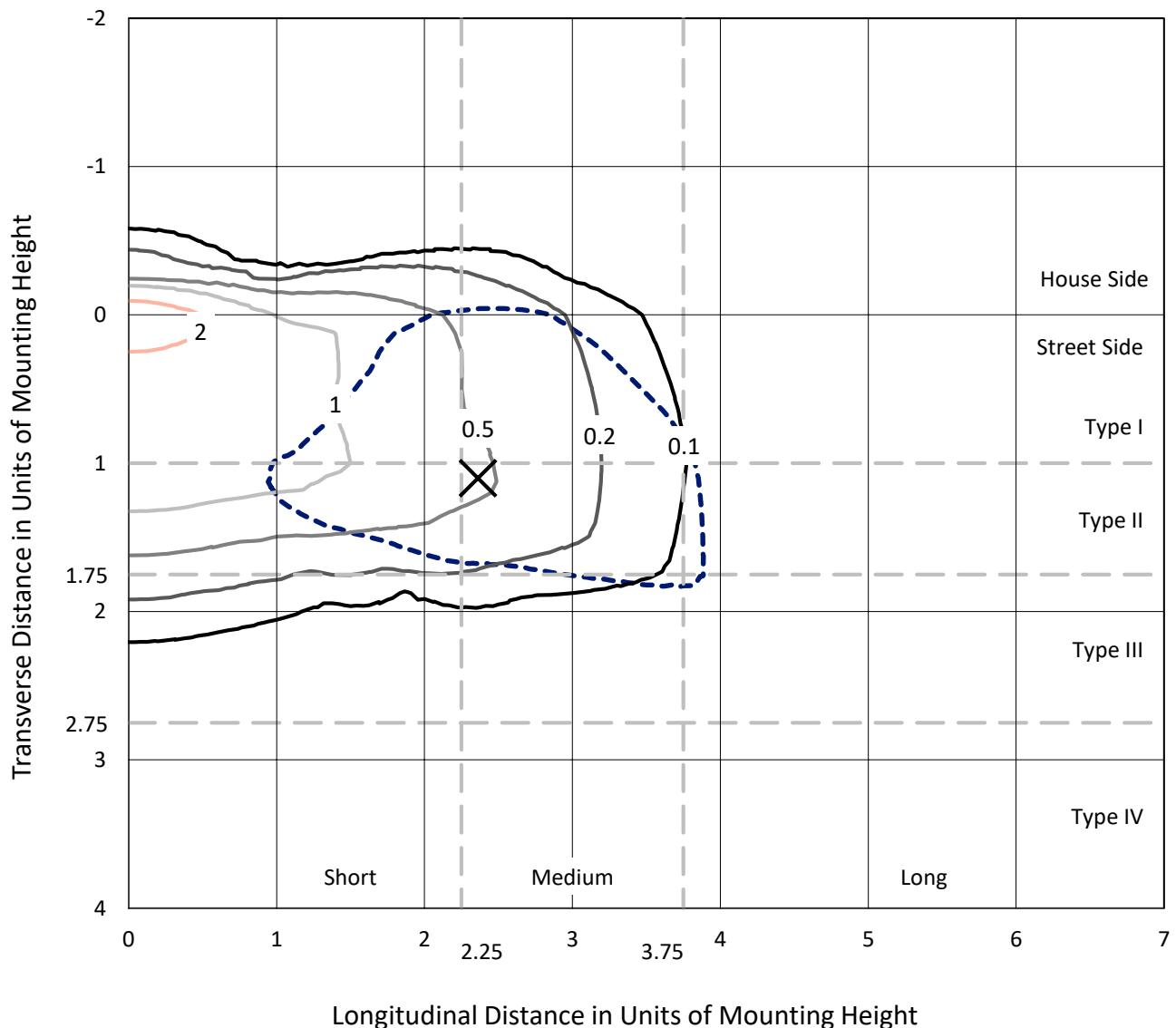
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

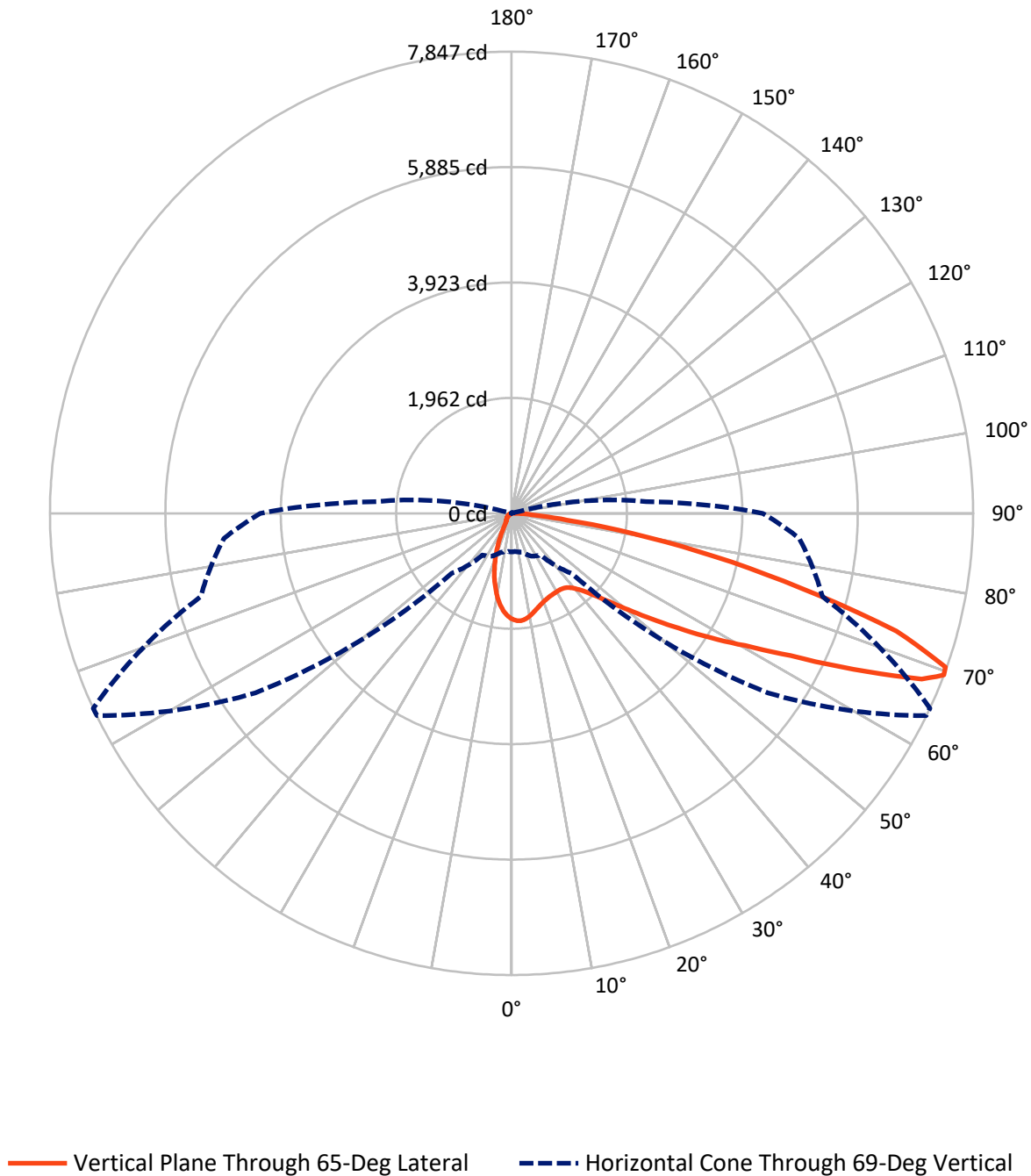
✕ Max cd
 - - - 1/2 Max cd



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	839.1	0.0	839.1
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	6279.9	0.0	6279.9
	% Fixture	88.2	0.0	88.2
Total	Lumens	7119.0	0.0	7119.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.4	2.1
10°-20°	329.3	4.6
20°-30°	456.1	6.4
30°-40°	635.9	8.9
40°-50°	988.5	13.9
50°-60°	1586.9	22.3
60°-70°	1795.0	25.2
70°-80°	1054.2	14.8
80°-90°	122.6	1.7
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°	7119.0	100.0
0°-180°	7119.0	100.0

Coefficient of Utilization



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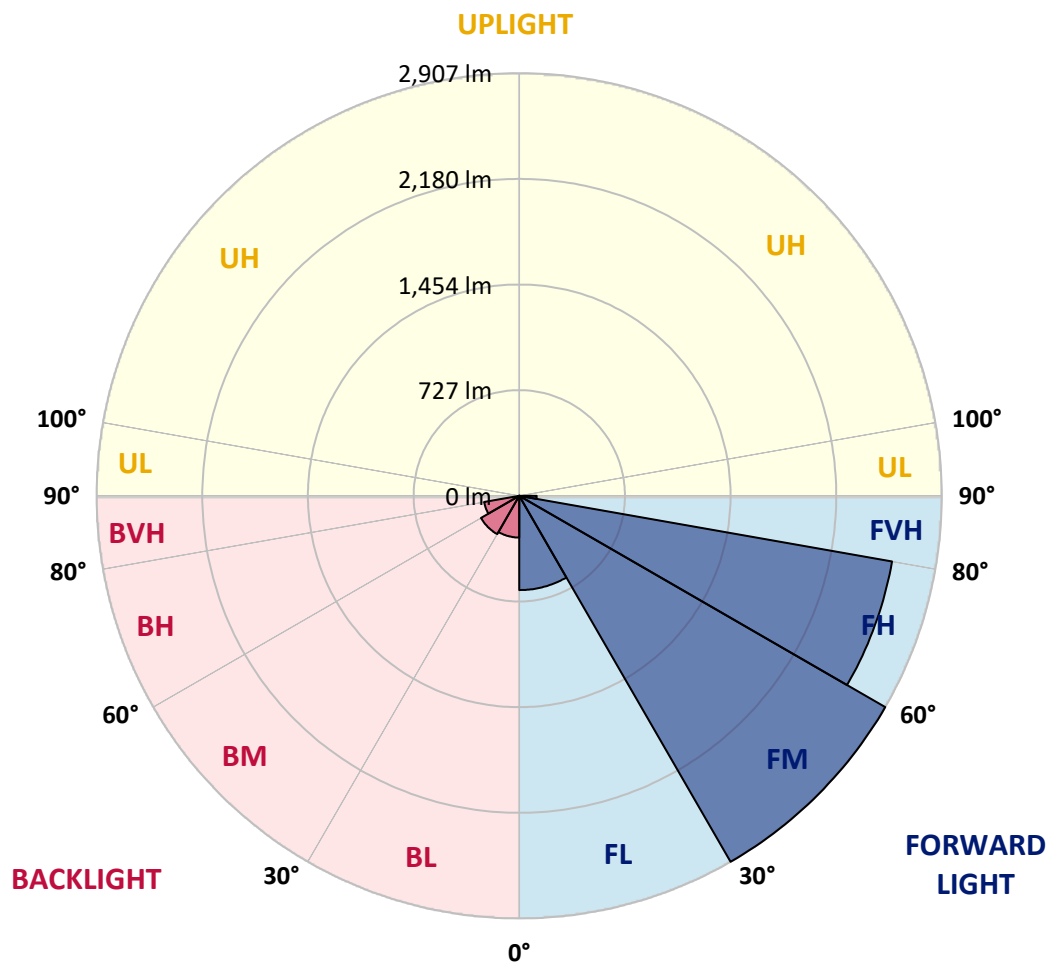
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	648.7	9.1			
FM	(30°-60°)	2907.2	40.8			
FH	(60°-80°)	2604.1	36.6			G2/5000
FVH	(80°-90°)	119.9	1.7			G2/225
BL	(0°-30°)	287.1	4.0	B1/500		
BM	(30°-60°)	304.1	4.3	B1/1000		
BH	(60°-80°)	245.2	3.4	B1/500		G1/500
BVH	(80°-90°)	2.8	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°	55°	64°	65°	75°	85°
0°	1799.0	1799.0	1799.0	1799.0	1799.0	1799.0	1799.0	1799.0	1799.0	1799.0	1799.0
2.5°	1814.9	1810.4	1814.0	1821.9	1825.8	1825.8	1828.8	1825.2	1826.4	1817.7	1805.0
5°	1701.4	1694.5	1704.4	1726.4	1753.5	1776.7	1811.0	1829.1	1830.9	1831.2	1816.5
7.5°	1579.1	1572.8	1587.5	1613.4	1648.4	1691.4	1751.4	1803.8	1806.8	1835.1	1824.3
10°	1479.7	1475.2	1492.3	1520.0	1561.0	1609.2	1682.7	1755.6	1764.3	1827.0	1823.1
12.5°	1400.7	1397.1	1413.4	1445.3	1487.2	1540.5	1617.3	1702.0	1713.7	1808.6	1817.1
15°	1343.2	1342.6	1356.2	1386.9	1433.3	1483.0	1561.6	1652.3	1665.8	1788.7	1816.2
17.5°	1313.1	1314.0	1323.9	1350.1	1389.9	1439.3	1514.6	1610.4	1625.2	1771.0	1820.7
20°	1310.1	1311.0	1316.4	1331.2	1363.4	1407.1	1476.4	1575.2	1590.5	1757.7	1827.9
22.5°	1336.6	1336.0	1337.5	1336.0	1354.1	1387.2	1451.1	1548.1	1565.8	1749.0	1833.6
25°	1387.5	1386.6	1386.0	1374.8	1362.8	1380.6	1440.5	1532.7	1549.6	1742.7	1836.9
27.5°	1458.3	1457.7	1456.8	1438.4	1402.3	1391.1	1441.7	1527.0	1541.1	1737.5	1836.3
30°	1551.4	1555.6	1554.4	1528.8	1472.4	1423.3	1454.4	1524.0	1536.3	1727.6	1830.0
32.5°	1660.7	1669.2	1675.8	1648.4	1577.9	1487.2	1483.6	1527.3	1536.3	1720.1	1818.6
35°	1774.3	1785.1	1809.5	1799.9	1707.1	1583.3	1533.9	1547.2	1554.7	1724.3	1813.1
37.5°	1886.0	1899.0	1952.0	1980.0	1876.4	1710.4	1612.2	1596.3	1600.2	1749.9	1819.2
40°	2015.9	2035.5	2115.9	2161.1	2078.5	1880.6	1729.4	1680.6	1682.1	1806.2	1847.2
42.5°	2186.4	2206.6	2293.6	2364.4	2306.3	2095.7	1888.5	1809.5	1808.0	1911.6	1913.2
45°	2394.2	2415.3	2505.4	2584.0	2557.8	2350.5	2092.1	1997.8	1996.0	2077.9	2038.2
47.5°	2629.8	2650.6	2731.0	2812.0	2840.4	2648.2	2351.5	2254.8	2250.5	2309.0	2231.3
50°	2831.9	2845.5	2919.6	3028.6	3156.4	3013.9	2674.1	2581.0	2576.5	2615.9	2514.7
52.5°	2905.4	2913.3	2988.6	3141.3	3460.0	3509.1	3097.9	2978.0	2974.7	2991.9	2892.2
55°	2756.6	2770.8	2863.3	3089.8	3624.5	4068.8	3632.9	3469.6	3444.6	3407.6	3286.8
57.5°	2351.2	2373.7	2473.2	2774.4	3547.7	4512.8	4419.1	4025.7	3989.0	3762.4	3607.6
60°	1761.6	1789.3	1871.9	2196.9	3137.7	4671.0	5278.3	4645.4	4562.5	4045.0	3902.5
62.5°	1208.9	1222.7	1278.7	1490.5	2310.8	4411.9	5997.0	5475.3	5324.1	4352.3	4221.5
65°	923.3	928.1	951.0	1023.9	1376.0	3583.8	6282.9	6570.3	6387.4	4719.8	4552.6
67.5°	744.1	740.1	771.8	876.0	921.5	2186.4	5949.4	7606.2	7520.7	5211.1	4885.8
69°	656.1	650.7	682.9	804.0	865.5	1445.3	5318.6	7841.5	7846.9	5470.5	4908.6
70°	590.4	594.0	626.0	761.2	846.5	1134.5	4716.2	7781.5	7824.3	5567.5	4771.3
72.5°	394.3	404.0	468.1	632.0	813.9	858.5	2847.6	6677.5	6842.0	5349.1	4093.5
75°	222.3	229.5	305.8	476.6	766.9	817.6	1504.1	4919.5	5078.5	4473.1	3156.7
77.5°	109.0	113.0	172.9	307.6	641.3	779.0	853.1	3341.6	3523.3	2919.6	1785.4
80°	46.1	48.2	86.5	189.8	458.5	743.5	633.5	2056.5	2079.1	1143.8	475.7
82.5°	17.8	18.4	36.4	118.4	291.3	579.6	529.9	975.1	951.6	215.4	108.4
85°	2.1	2.4	13.3	71.1	162.1	298.2	430.5	420.2	388.9	42.8	55.7
87.5°	0.0	0.0	0.9	21.7	48.2	139.8	223.8	174.4	157.2	13.9	28.9
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°	1799.0	1799.0	1799.0	1799.0	1799.0	1799.0	1799.0	1799.0	1799.0	1799.0	1799.0
2.5°	1794.5	1791.5	1775.2	1751.7	1729.4	1701.7	1675.2	1659.2	1646.6	1638.1	1648.1
5°	1799.3	1786.0	1736.6	1673.4	1611.3	1541.4	1476.4	1421.2	1399.5	1375.4	1386.3
7.5°	1797.8	1772.8	1683.9	1571.2	1457.4	1339.6	1228.1	1142.3	1097.7	1054.0	1065.2
10°	1790.2	1748.1	1613.4	1446.5	1276.0	1106.7	948.6	828.4	761.2	700.4	709.1
12.5°	1773.7	1714.9	1530.3	1303.8	1075.7	852.5	667.2	513.3	430.8	394.3	398.8
15°	1763.7	1682.7	1442.3	1159.2	861.8	593.7	407.9	303.3	265.7	253.6	255.1
17.5°	1758.9	1651.7	1351.3	993.8	643.1	378.1	263.6	232.6	224.4	222.3	222.9
20°	1754.1	1620.4	1257.7	830.2	443.1	254.2	216.6	207.6	204.5	201.8	202.4
22.5°	1746.0	1590.2	1157.0	664.5	298.8	206.3	195.2	186.5	180.1	176.8	177.4
25°	1736.0	1558.6	1054.3	494.9	218.1	184.1	173.5	161.2	153.6	147.6	147.9
27.5°	1720.1	1519.7	948.3	360.3	183.2	164.8	150.6	137.1	124.4	117.5	117.5
30°	1697.8	1475.8	830.5	257.9	164.2	145.8	128.6	111.8	98.2	91.9	91.3
32.5°	1673.1	1430.0	711.5	195.5	149.1	128.0	108.4	90.7	78.6	73.5	73.2
35°	1652.0	1380.6	592.8	163.9	134.1	110.9	89.5	74.4	64.8	60.5	60.2
37.5°	1638.4	1331.2	477.2	146.4	120.5	94.9	75.0	61.5	54.5	51.2	50.9
40°	1636.3	1294.4	371.4	133.1	107.8	80.7	62.7	52.1	45.8	42.2	41.9
42.5°	1663.7	1273.3	285.0	122.0	94.9	68.4	53.3	44.6	38.0	34.3	34.0
45°	1735.7	1280.0	219.3	112.1	81.9	57.8	45.2	37.1	31.0	28.3	27.7
47.5°	1867.1	1325.7	174.4	102.1	69.6	49.1	38.6	30.7	25.6	22.9	22.6
50°	2100.8	1433.3	145.8	91.3	58.1	41.9	31.9	25.0	20.8	18.4	18.1
52.5°	2411.1	1624.9	130.1	80.7	48.2	35.5	26.2	19.9	16.3	14.5	14.2
55°	2753.3	1856.8	119.9	69.3	39.5	29.5	20.8	15.7	12.7	11.1	10.5
57.5°	3087.4	2057.7	110.3	58.1	32.8	24.1	16.6	12.4	9.9	8.4	8.1
60°	3394.3	2242.4	99.1	46.7	26.8	19.0	13.0	9.6	7.8	6.3	6.3
62.5°	3723.0	2385.2	83.7	36.4	22.0	14.5	10.5	8.7	6.3	5.4	5.1
65°	4071.2	2491.2	65.7	28.3	17.2	10.8	8.7	9.0	5.1	3.9	3.6
67.5°	4328.5	2470.1	48.5	22.3	13.3	8.4	8.4	9.6	4.5	3.0	2.7
69°	4271.8	2298.7	40.7	19.3	11.4	7.2	7.8	9.6	4.2	2.7	2.4
70°	4107.7	2109.0	35.8	17.2	10.2	6.6	7.5	9.3	3.9	2.7	2.4
72.5°	3420.8	1588.4	28.0	13.0	8.1	5.4	6.3	8.1	3.9	2.7	2.1
75°	2573.2	1016.7	21.4	9.3	6.0	4.2	4.8	6.0	3.9	2.4	2.1
77.5°	1400.1	366.6	15.4	6.3	4.2	3.3	3.3	4.5	3.6	1.8	1.2
80°	360.0	92.2	9.6	4.2	3.3	2.4	2.1	3.0	2.1	0.3	0.0
82.5°	88.9	20.8	5.1	3.0	2.4	0.9	0.9	1.5	0.9	0.0	0.0
85°	48.8	10.2	3.3	2.1	1.2	0.0	0.0	0.3	0.0	0.0	0.0
87.5°	25.0	3.0	0.9	0.6	0.3	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)