

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: STREETWORKS

Report Number: P386584

Luminaire Tested: GAW-SA2B-730-U-SL4-HSS

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P386584
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
Product Line: STREETWORKS
Catalog Number: GAW-SA2B-730-U-SL4-HSS
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH 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: 8816 lumens
Efficiency: N/A
Efficacy: 102.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

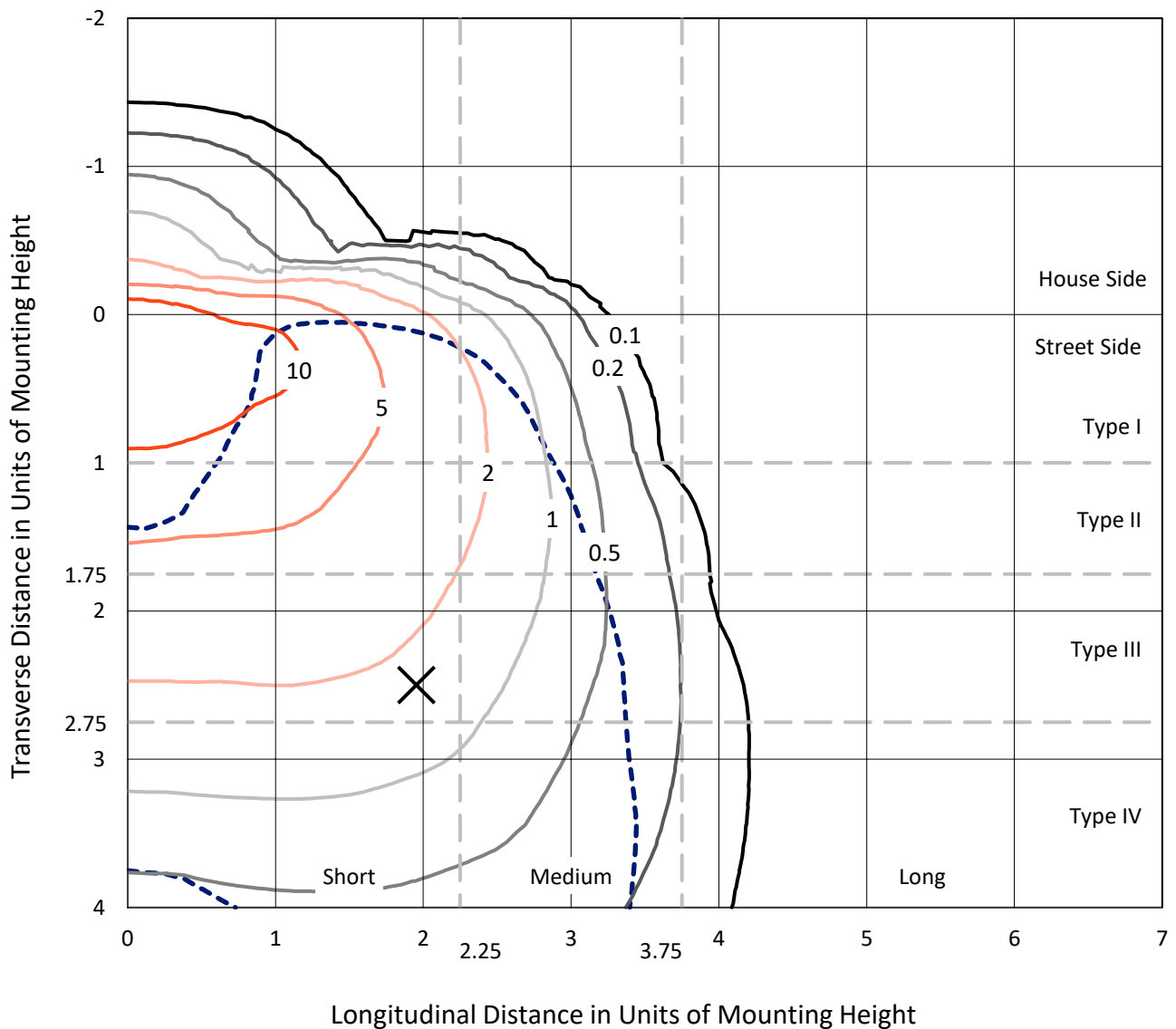
Input Watts (W): 86
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P386584
 CATALOG NUMBER: GAW-SA2B-730-U-SL4-HSS

Iso-Footcandle Lines of Horizontal Illumination

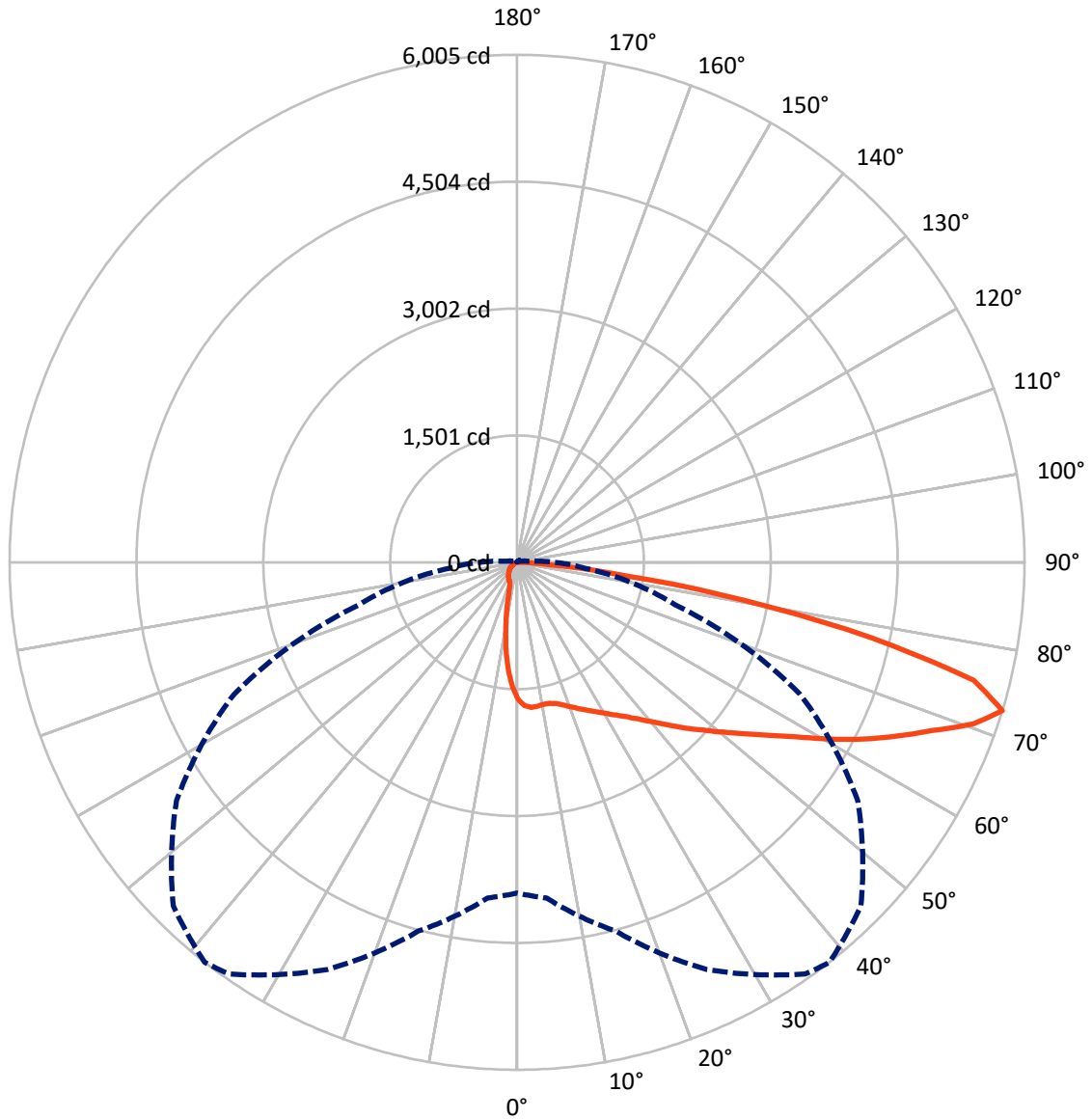
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 17.1 fc
 Type IV - Short - N/A

REPORT NUMBER: P386584
CATALOG NUMBER: GAW-SA2B-730-U-SL4-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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 CATALOG NUMBER: GAW-SA2B-730-U-SL4-HSS

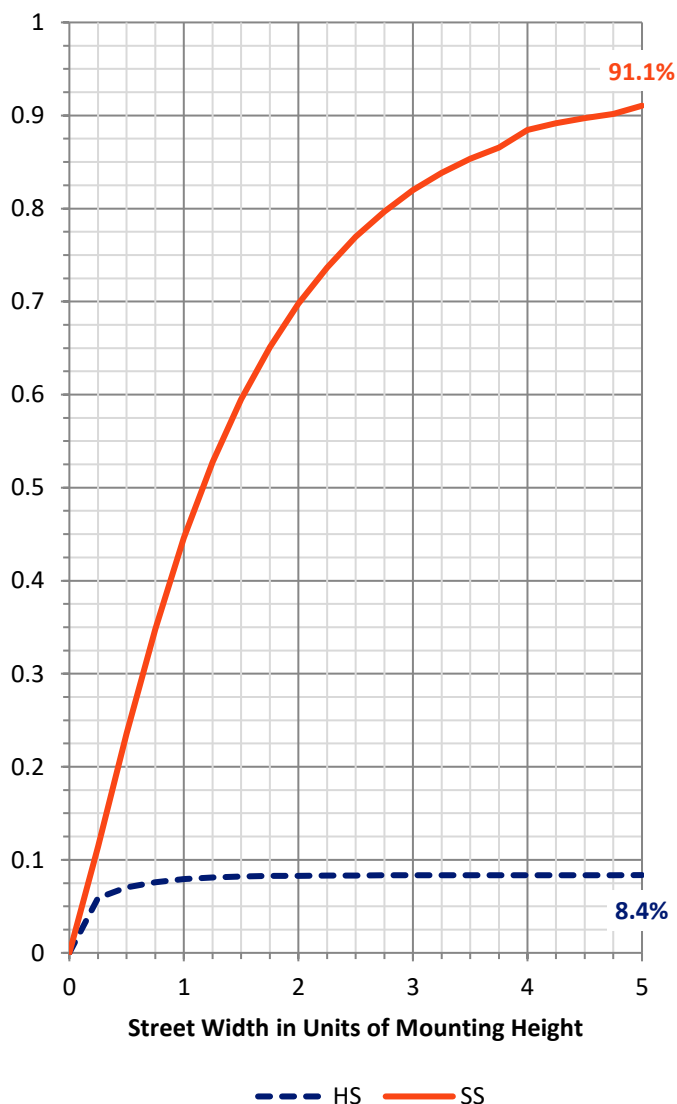
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	741.9	0.0	741.9
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	8074.1	0.0	8074.1
	% Fixture	91.6	0.0	91.6
Total	Lumens	8816.0	0.0	8816.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.2	1.6
10°-20°	337.8	3.8
20°-30°	537.3	6.1
30°-40°	807.8	9.2
40°-50°	1232.3	14.0
50°-60°	1741.7	19.8
60°-70°	2184.7	24.8
70°-80°	1633.6	18.5
80°-90°	202.6	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°	8816.0	100.0
0°-180°	8816.0	100.0

Coefficient of Utilization

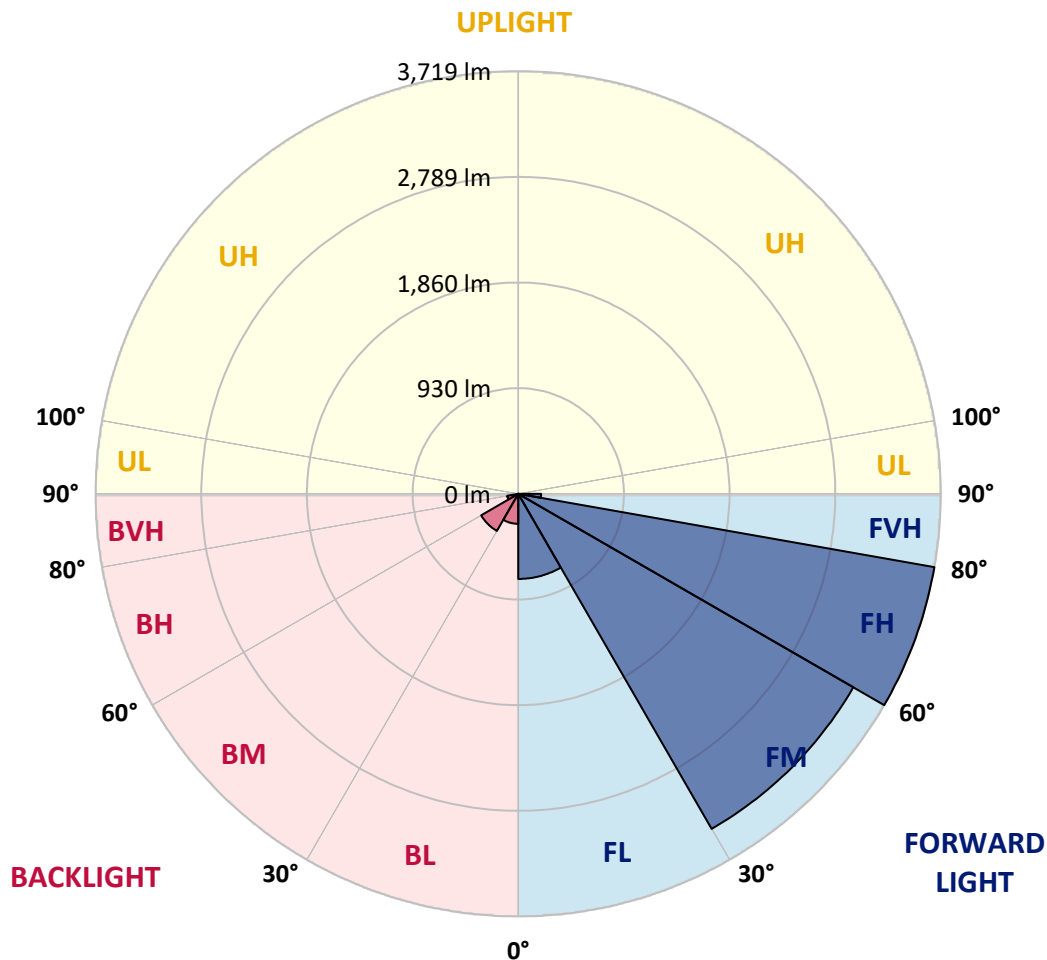


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	749.1	8.5			
FM (30°-60°)	3405.1	38.6			
FH (60°-80°)	3719.2	42.2			G2/5000
FVH (80°-90°)	200.7	2.3			G2/225
BL (0°-30°)	264.2	3.0	B1/500		
BM (30°-60°)	376.7	4.3	B1/1000		
BH (60°-80°)	99.1	1.1	B0/110		G0/110
BVH (80°-90°)	1.9	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 IV Short





REPORT NUMBER: P386584

CATALOG NUMBER: GAW-SA2B-730-U-SL4-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	1621.2	1621.2	1621.2	1621.2	1621.2	1621.2	1621.2	1621.2	1621.2	1621.2	1621.2
2.5°	1720.8	1721.2	1717.2	1710.6	1702.1	1697.8	1690.4	1678.7	1666.3	1643.9	1619.8
5°	1756.0	1756.0	1750.8	1742.1	1728.5	1724.5	1710.6	1691.9	1666.3	1630.0	1589.4
7.5°	1752.3	1753.0	1746.1	1736.9	1723.4	1719.7	1702.9	1682.0	1650.2	1606.2	1554.2
10°	1733.3	1735.1	1729.6	1725.2	1712.8	1708.7	1693.0	1672.1	1640.3	1593.4	1533.7
12.5°	1713.9	1715.7	1717.5	1721.6	1713.9	1712.4	1700.0	1682.4	1652.0	1603.3	1535.9
15°	1701.4	1705.1	1718.3	1734.0	1735.8	1734.4	1726.3	1709.8	1679.1	1628.6	1551.7
17.5°	1701.4	1707.3	1734.7	1764.8	1775.4	1776.5	1769.5	1746.5	1709.8	1655.6	1566.3
20°	1715.7	1723.8	1766.6	1809.1	1826.6	1826.6	1813.1	1780.9	1738.0	1680.2	1576.2
22.5°	1752.3	1762.9	1816.7	1865.8	1884.5	1880.5	1862.1	1815.3	1767.3	1708.0	1588.6
25°	1824.4	1832.5	1888.5	1937.9	1949.3	1940.1	1917.1	1857.0	1804.7	1745.7	1611.3
27.5°	1917.4	1918.5	1976.4	2018.1	2011.2	2004.9	1976.0	1909.4	1858.5	1799.5	1650.5
30°	2019.6	2019.6	2070.5	2102.3	2081.1	2076.0	2047.0	1972.7	1927.3	1872.8	1706.2
32.5°	2118.4	2122.8	2164.2	2184.3	2160.5	2155.4	2127.2	2052.9	2018.9	1984.4	1792.9
35°	2214.0	2217.3	2256.5	2267.5	2244.8	2246.2	2226.1	2163.1	2150.3	2145.9	1923.7
37.5°	2306.6	2307.4	2347.3	2354.2	2342.9	2355.3	2357.2	2301.5	2325.3	2360.8	2107.8
40°	2391.2	2391.9	2431.5	2449.4	2468.8	2484.9	2499.2	2469.6	2548.3	2630.7	2327.1
42.5°	2458.9	2466.6	2516.8	2550.8	2602.1	2632.9	2671.7	2670.2	2813.7	2937.5	2592.2
45°	2518.6	2531.8	2601.7	2661.4	2749.3	2798.3	2859.1	2906.7	3112.5	3279.1	2860.6
47.5°	2597.3	2609.8	2689.6	2787.4	2904.5	2969.0	3069.7	3172.5	3440.9	3614.5	3122.7
50°	2708.3	2702.8	2781.5	2921.7	3072.2	3156.8	3300.3	3454.5	3766.8	3906.6	3276.9
52.5°	2826.5	2824.3	2882.6	3067.8	3269.9	3368.8	3558.4	3745.9	4078.3	4108.0	3347.5
55°	2973.0	2957.2	3006.3	3234.4	3504.6	3610.8	3834.1	4034.4	4326.6	4221.5	3383.1
57.5°	3126.4	3100.4	3147.3	3420.0	3769.3	3894.9	4139.5	4315.6	4491.7	4299.1	3382.7
60°	3284.9	3254.2	3309.8	3652.2	4098.1	4243.5	4470.5	4505.6	4645.9	4338.3	3357.8
62.5°	3417.5	3399.2	3481.9	3900.4	4465.3	4608.1	4720.5	4678.4	4775.8	4368.7	3299.6
65°	3557.7	3558.8	3692.4	4190.0	4855.6	4951.9	4961.5	4902.5	4884.6	4362.5	3102.6
67.5°	3747.4	3764.9	3987.9	4583.2	5235.3	5309.6	5308.9	5145.3	4964.0	4115.0	2665.8
70°	3948.0	3989.4	4328.4	5033.2	5649.8	5725.2	5686.4	5299.8	4674.0	3327.4	1886.7
72.5°	3914.3	3986.1	4517.7	5317.0	5947.5	6004.9	5752.7	4920.1	3694.3	1933.9	803.3
75°	3019.9	3103.0	4142.4	5035.8	5635.1	5583.5	4942.8	3828.6	2018.9	539.7	180.9
77.5°	1595.2	1639.5	2736.5	3836.3	4394.0	4285.9	3481.9	2123.9	615.5	133.6	81.3
80°	835.5	845.8	1192.5	2176.7	2711.9	2712.7	2063.5	932.9	253.7	68.5	54.6
82.5°	447.4	456.2	630.1	1005.8	1421.0	1288.1	790.1	513.3	147.6	38.8	52.4
85°	107.6	109.5	357.3	459.5	558.7	399.1	234.7	430.9	39.9	22.7	42.5
87.5°	41.4	42.1	132.5	198.8	142.4	92.3	109.8	160.7	5.1	8.8	6.6
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: P386584
 CATALOG NUMBER: GAW-SA2B-730-U-SL4-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1621.2	1621.2	1621.2	1621.2	1621.2	1621.2	1621.2	1621.2	1621.2	1621.2	1621.2
2.5°	1605.1	1595.6	1572.2	1542.5	1516.2	1497.1	1468.6	1449.9	1437.4	1437.1	1432.3
5°	1564.5	1545.1	1494.6	1434.5	1380.0	1330.9	1273.0	1227.3	1193.2	1187.7	1176.0
7.5°	1520.9	1489.1	1411.4	1317.7	1226.2	1133.2	1025.2	958.2	900.7	873.2	870.3
10°	1494.2	1449.5	1339.3	1203.8	1060.3	909.1	767.8	670.0	599.4	579.2	564.2
12.5°	1488.7	1429.7	1283.7	1096.9	891.9	692.0	535.7	431.7	375.3	357.3	352.6
15°	1494.2	1420.6	1236.8	991.1	721.3	491.0	359.5	299.1	277.9	272.8	272.4
17.5°	1497.5	1409.6	1183.7	873.6	555.8	350.8	275.3	257.8	254.5	254.1	254.8
20°	1497.1	1392.8	1120.4	742.5	413.4	275.7	249.0	245.3	244.6	244.9	244.6
22.5°	1494.6	1373.0	1050.8	607.4	312.3	246.4	237.6	235.4	235.1	235.1	235.1
25°	1499.3	1357.3	974.3	478.2	257.4	232.9	227.4	225.5	225.2	225.2	224.4
27.5°	1516.5	1348.5	890.4	368.0	232.5	220.8	216.4	216.0	214.9	214.6	215.3
30°	1544.3	1348.5	798.5	286.3	217.5	208.3	205.0	204.3	203.9	203.6	203.9
32.5°	1593.4	1358.7	698.2	238.0	203.2	194.4	192.2	193.3	192.2	192.2	192.2
35°	1682.0	1389.5	593.1	207.6	188.2	180.9	178.7	180.1	179.4	179.4	179.0
37.5°	1811.3	1446.6	487.3	189.3	175.0	167.3	164.4	166.6	165.9	165.9	165.5
40°	1968.7	1529.7	386.6	175.4	162.2	154.1	151.6	152.7	150.8	150.8	151.6
42.5°	2163.1	1635.1	298.8	161.8	149.4	141.7	140.2	139.1	135.8	134.0	134.4
45°	2379.1	1745.0	232.9	148.6	137.3	131.1	128.9	125.9	120.5	116.8	117.2
47.5°	2572.1	1829.6	189.3	135.8	126.3	121.6	118.3	112.8	104.7	100.3	100.7
50°	2673.5	1842.4	161.1	123.0	116.1	111.3	106.5	98.1	88.6	83.8	83.5
52.5°	2699.5	1782.3	140.2	111.3	105.8	100.3	94.1	82.7	72.1	67.0	66.3
55°	2709.0	1690.8	121.6	100.3	94.8	88.6	80.5	67.7	57.8	52.7	52.4
57.5°	2677.5	1554.2	106.9	90.4	83.8	76.2	66.3	54.2	44.7	40.6	40.6
60°	2607.6	1369.3	95.6	79.8	72.5	63.7	53.5	42.1	33.3	30.0	30.0
62.5°	2468.1	1129.9	84.9	68.8	61.9	52.7	43.2	31.9	23.4	21.6	22.0
65°	2204.8	857.1	74.3	58.9	52.7	43.6	33.7	22.7	15.7	15.7	16.5
67.5°	1798.1	595.3	63.3	50.2	45.4	35.5	25.6	15.7	11.0	12.4	13.9
70°	1190.3	333.9	54.2	41.4	38.8	28.2	19.0	10.6	8.8	11.7	14.3
72.5°	449.2	130.0	45.4	33.3	33.7	21.6	13.5	8.1	8.1	12.8	16.8
75°	125.2	63.7	32.6	24.5	26.4	15.7	9.9	7.0	7.7	14.6	19.8
77.5°	73.6	46.9	21.2	14.3	17.9	11.0	6.6	5.5	6.6	12.4	19.0
80°	59.3	24.9	12.4	7.3	9.9	6.2	4.4	3.3	1.8	4.8	9.9
82.5°	59.3	15.0	5.9	5.1	5.1	3.3	2.2	1.5	0.4	0.0	2.6
85°	39.9	6.2	3.7	3.3	2.6	1.1	0.7	0.4	0.0	0.0	0.0
87.5°	6.6	2.6	1.5	0.7	0.4	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)