

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: P386920

Luminaire Tested: GAW-SA2C-827-U-SL4-HSS

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P386920
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-SA2C-827-U-SL4-HSS
Description: GALLEON WALL LUMINAIRE
(2) 80 CRI, 2700K, 1050mA 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: 8807 lumens
Efficiency: N/A
Efficacy: 79.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

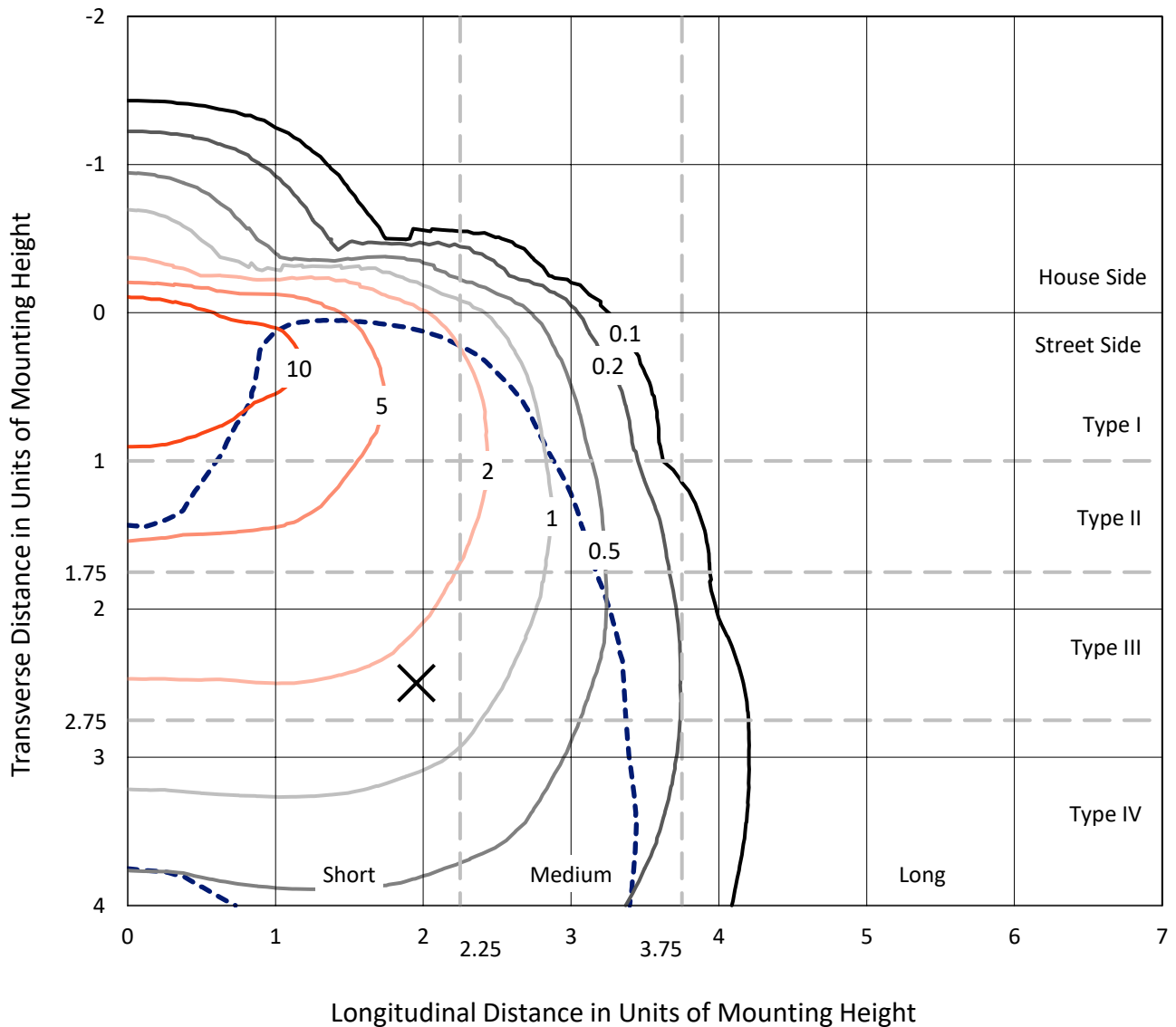
Input Watts (W): 111
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

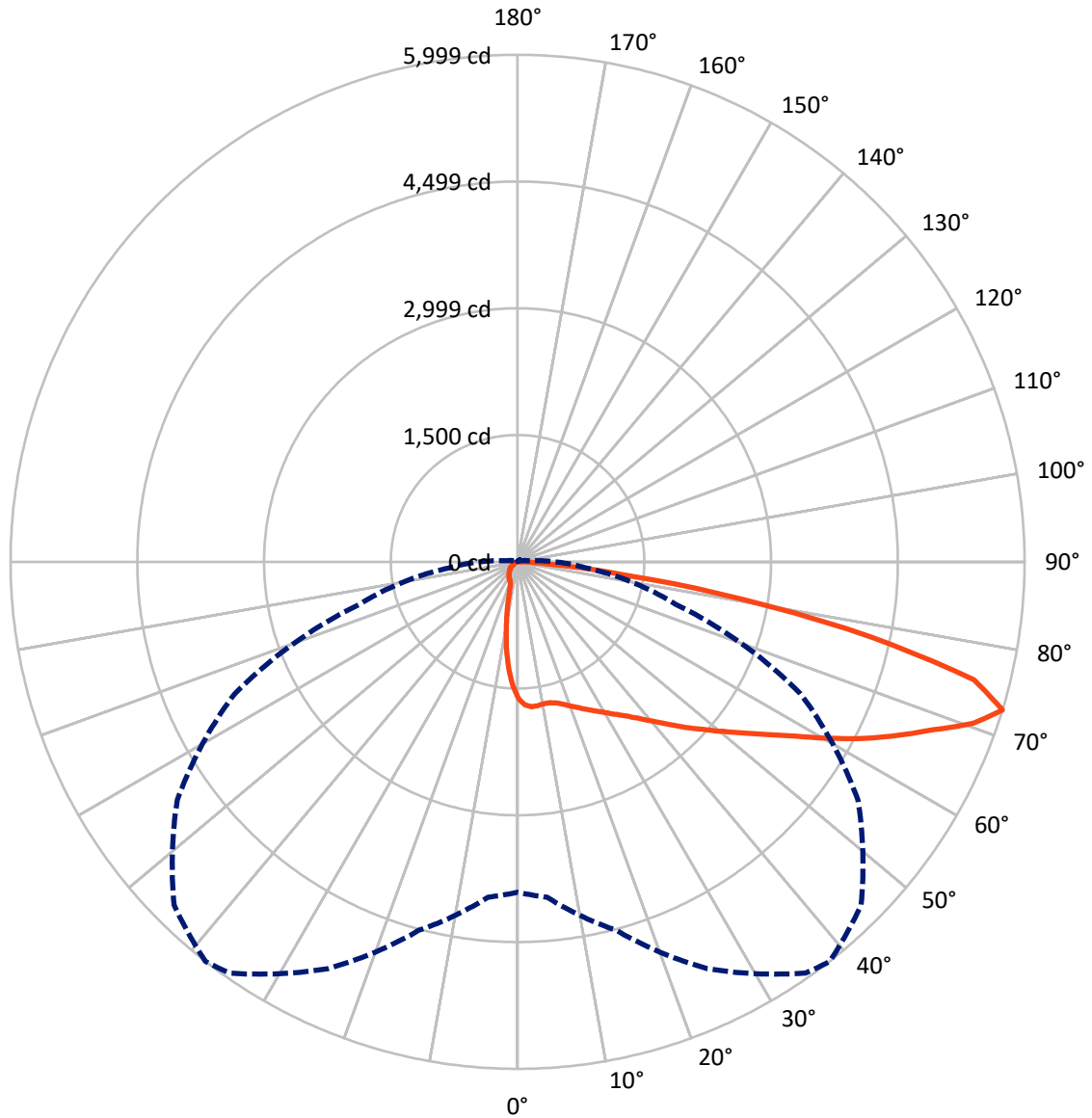
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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

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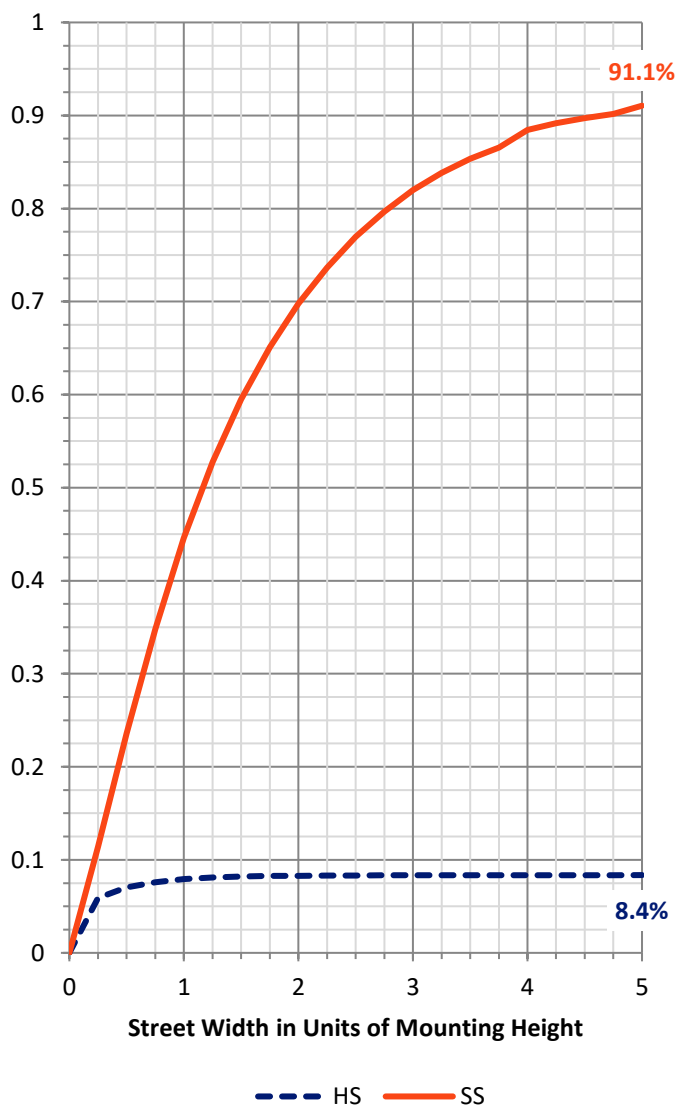
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	741.1	0.0	741.1
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	8065.9	0.0	8065.9
	% Fixture	91.6	0.0	91.6
Total	Lumens	8807.0	0.0	8807.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.0	1.6
10°-20°	337.5	3.8
20°-30°	536.8	6.1
30°-40°	807.0	9.2
40°-50°	1231.1	14.0
50°-60°	1739.9	19.8
60°-70°	2182.5	24.8
70°-80°	1631.9	18.5
80°-90°	202.4	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°	8807.0	100.0
0°-180°	8807.0	100.0

Coefficient of Utilization

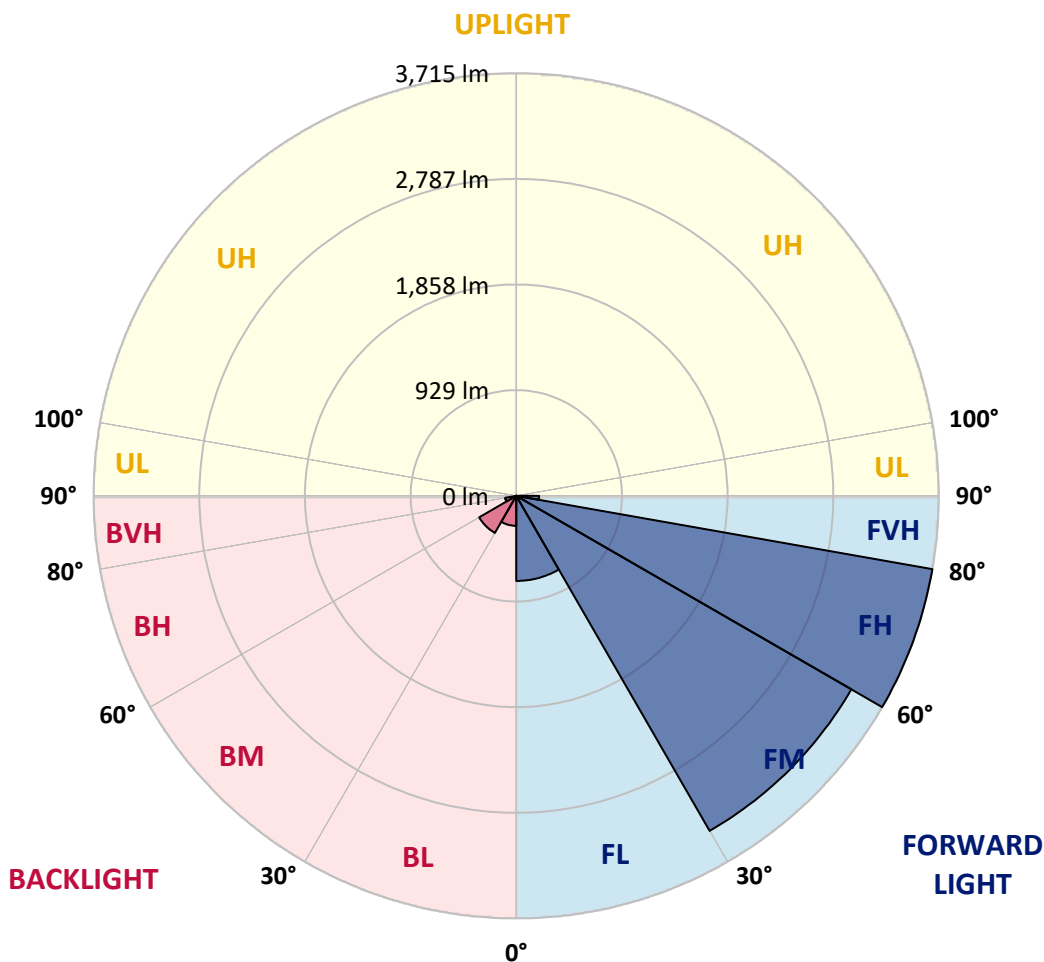


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	748.4	8.5			
FM (30°-60°)	3401.7	38.6			
FH (60°-80°)	3715.4	42.2			G2/5000
FVH (80°-90°)	200.5	2.3			G2/225
BL (0°-30°)	263.9	3.0	B1/500		
BM (30°-60°)	376.4	4.3	B1/1000		
BH (60°-80°)	99.0	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	1619.6	1619.6	1619.6	1619.6	1619.6	1619.6	1619.6	1619.6	1619.6	1619.6	1619.6
2.5°	1719.1	1719.4	1715.4	1708.8	1700.4	1696.0	1688.7	1677.0	1664.6	1642.3	1618.1
5°	1754.2	1754.2	1749.1	1740.3	1726.7	1722.7	1708.8	1690.2	1664.6	1628.4	1587.8
7.5°	1750.5	1751.3	1744.3	1735.2	1721.6	1718.0	1701.1	1680.3	1648.5	1604.6	1552.6
10°	1731.5	1733.3	1727.8	1723.5	1711.0	1707.0	1691.3	1670.4	1638.6	1591.8	1532.2
12.5°	1712.1	1713.9	1715.8	1719.8	1712.1	1710.7	1698.2	1680.7	1650.3	1601.7	1534.4
15°	1699.7	1703.3	1716.5	1732.2	1734.1	1732.6	1724.6	1708.1	1677.4	1626.9	1550.1
17.5°	1699.7	1705.5	1733.0	1763.0	1773.6	1774.7	1767.7	1744.7	1708.1	1654.0	1564.7
20°	1713.9	1722.0	1764.8	1807.2	1824.8	1824.8	1811.2	1779.0	1736.3	1678.5	1574.6
22.5°	1750.5	1761.1	1814.9	1863.9	1882.6	1878.5	1860.2	1813.4	1765.5	1706.3	1587.0
25°	1822.6	1830.6	1886.6	1936.0	1947.3	1938.2	1915.1	1855.1	1802.8	1743.9	1609.7
27.5°	1915.5	1916.6	1974.4	2016.1	2009.1	2002.9	1974.0	1907.4	1856.6	1797.7	1648.8
30°	2017.5	2017.5	2068.4	2100.2	2079.0	2073.9	2045.0	1970.7	1925.4	1870.9	1704.4
32.5°	2116.3	2120.7	2162.0	2182.1	2158.3	2153.2	2125.1	2050.8	2016.8	1982.4	1791.1
35°	2211.7	2215.0	2254.2	2265.1	2242.5	2243.9	2223.8	2160.9	2148.1	2143.7	1921.7
37.5°	2304.3	2305.0	2344.9	2351.8	2340.5	2352.9	2354.8	2299.2	2322.9	2358.4	2105.7
40°	2388.8	2389.5	2429.0	2446.9	2466.3	2482.4	2496.7	2467.0	2545.7	2628.0	2324.8
42.5°	2456.4	2464.1	2514.2	2548.2	2599.4	2630.2	2668.9	2667.5	2810.9	2934.5	2589.6
45°	2516.1	2529.2	2599.1	2658.7	2746.5	2795.5	2856.2	2903.8	3109.3	3275.7	2857.7
47.5°	2594.7	2607.1	2686.9	2784.5	2901.6	2965.9	3066.5	3169.3	3437.4	3610.8	3119.6
50°	2705.5	2700.0	2778.7	2918.8	3069.1	3153.6	3296.9	3450.9	3762.9	3902.6	3273.5
52.5°	2823.7	2821.5	2879.6	3064.7	3266.6	3365.3	3554.8	3742.1	4074.2	4103.8	3344.1
55°	2970.0	2954.2	3003.2	3231.1	3501.0	3607.1	3830.2	4030.3	4322.2	4217.2	3379.6
57.5°	3123.2	3097.2	3144.1	3416.5	3765.5	3890.9	4135.3	4311.2	4487.1	4294.7	3379.2
60°	3281.6	3250.9	3306.5	3648.4	4093.9	4239.1	4465.9	4501.0	4641.1	4333.9	3354.4
62.5°	3414.0	3395.7	3478.4	3896.4	4460.8	4603.4	4715.7	4673.7	4771.0	4364.2	3296.2
65°	3554.1	3555.2	3688.7	4185.7	4850.7	4946.9	4956.4	4897.5	4879.6	4358.0	3099.4
67.5°	3743.5	3761.1	3983.8	4578.6	5230.0	5304.2	5303.5	5140.0	4959.0	4110.8	2663.1
70°	3944.0	3985.3	4324.0	5028.1	5644.0	5719.4	5680.6	5294.4	4669.3	3324.0	1884.8
72.5°	3910.3	3982.0	4513.1	5311.5	5941.4	5998.8	5746.8	4915.1	3690.5	1931.9	802.5
75°	3016.8	3099.8	4138.2	5030.6	5629.4	5577.8	4937.7	3824.7	2016.8	539.1	180.7
77.5°	1593.6	1637.9	2733.7	3832.4	4389.5	4281.6	3478.4	2121.8	614.8	133.5	81.2
80°	834.7	844.9	1191.3	2174.4	2709.2	2709.9	2061.4	932.0	253.5	68.4	54.5
82.5°	447.0	455.7	629.5	1004.7	1419.5	1286.7	789.3	512.8	147.4	38.8	52.3
85°	107.5	109.4	357.0	459.0	558.1	398.7	234.5	430.5	39.9	22.7	42.4
87.5°	41.3	42.1	132.4	198.6	142.3	92.2	109.7	160.6	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1619.6	1619.6	1619.6	1619.6	1619.6	1619.6	1619.6	1619.6	1619.6	1619.6	1619.6
2.5°	1603.5	1594.0	1570.6	1540.9	1514.6	1495.6	1467.1	1448.4	1436.0	1435.6	1430.8
5°	1562.9	1543.5	1493.0	1433.0	1378.5	1329.5	1271.7	1226.0	1192.0	1186.5	1174.8
7.5°	1519.4	1487.5	1410.0	1316.4	1224.9	1132.0	1024.1	957.2	899.8	872.3	869.4
10°	1492.7	1448.0	1337.9	1202.6	1059.2	908.2	767.0	669.3	598.7	578.6	563.6
12.5°	1487.2	1428.3	1282.3	1095.8	891.0	691.3	535.1	431.2	374.9	357.0	352.2
15°	1492.7	1419.1	1235.5	990.1	720.5	490.5	359.2	298.8	277.6	272.5	272.1
17.5°	1496.0	1408.2	1182.5	872.7	555.2	350.4	275.1	257.5	254.2	253.8	254.6
20°	1495.6	1391.3	1119.2	741.8	412.9	275.4	248.7	245.1	244.3	244.7	244.3
22.5°	1493.0	1371.6	1049.7	606.8	312.0	246.2	237.4	235.2	234.8	234.8	234.8
25°	1497.8	1355.9	973.3	477.7	257.1	232.6	227.1	225.3	224.9	224.9	224.2
27.5°	1515.0	1347.1	889.5	367.6	232.3	220.6	216.2	215.8	214.7	214.3	215.1
30°	1542.8	1347.1	797.7	286.0	217.3	208.1	204.8	204.1	203.7	203.4	203.7
32.5°	1591.8	1357.3	697.5	237.7	203.0	194.2	192.0	193.1	192.0	192.0	192.0
35°	1680.3	1388.1	592.5	207.4	188.0	180.7	178.5	180.0	179.2	179.2	178.9
37.5°	1809.4	1445.1	486.8	189.1	174.8	167.2	164.2	166.4	165.7	165.7	165.3
40°	1966.7	1528.1	386.2	175.2	162.0	154.0	151.4	152.5	150.7	150.7	151.4
42.5°	2160.9	1633.5	298.5	161.7	149.2	141.5	140.1	139.0	135.7	133.9	134.2
45°	2376.7	1743.2	232.6	148.5	137.2	130.9	128.7	125.8	120.3	116.7	117.0
47.5°	2569.5	1827.7	189.1	135.7	126.2	121.4	118.1	112.7	104.6	100.2	100.6
50°	2670.8	1840.5	160.9	122.9	115.9	111.2	106.4	98.0	88.5	83.8	83.4
52.5°	2696.7	1780.5	140.1	111.2	105.7	100.2	94.0	82.7	72.1	66.9	66.2
55°	2706.2	1689.1	121.4	100.2	94.7	88.5	80.5	67.7	57.8	52.7	52.3
57.5°	2674.8	1552.6	106.8	90.3	83.8	76.1	66.2	54.1	44.6	40.6	40.6
60°	2604.9	1367.9	95.5	79.7	72.4	63.6	53.4	42.1	33.3	30.0	30.0
62.5°	2465.6	1128.7	84.9	68.8	61.8	52.7	43.2	31.8	23.4	21.6	21.9
65°	2202.6	856.2	74.2	58.9	52.7	43.5	33.6	22.7	15.7	15.7	16.5
67.5°	1796.2	594.7	63.3	50.1	45.4	35.5	25.6	15.7	11.0	12.4	13.9
70°	1189.1	333.6	54.1	41.3	38.8	28.2	19.0	10.6	8.8	11.7	14.3
72.5°	448.8	129.8	45.4	33.3	33.6	21.6	13.5	8.0	8.0	12.8	16.8
75°	125.1	63.6	32.6	24.5	26.3	15.7	9.9	6.9	7.7	14.6	19.8
77.5°	73.5	46.8	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)