

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: McGRAW-EDISON

Report Number: P637020

Luminaire Tested: GWS-SA4B-830-U-T4FT-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637020
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-54)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4B-830-U-T4FT-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: (64) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11106.3 lumens
Efficiency: N/A
Efficacy: 117.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

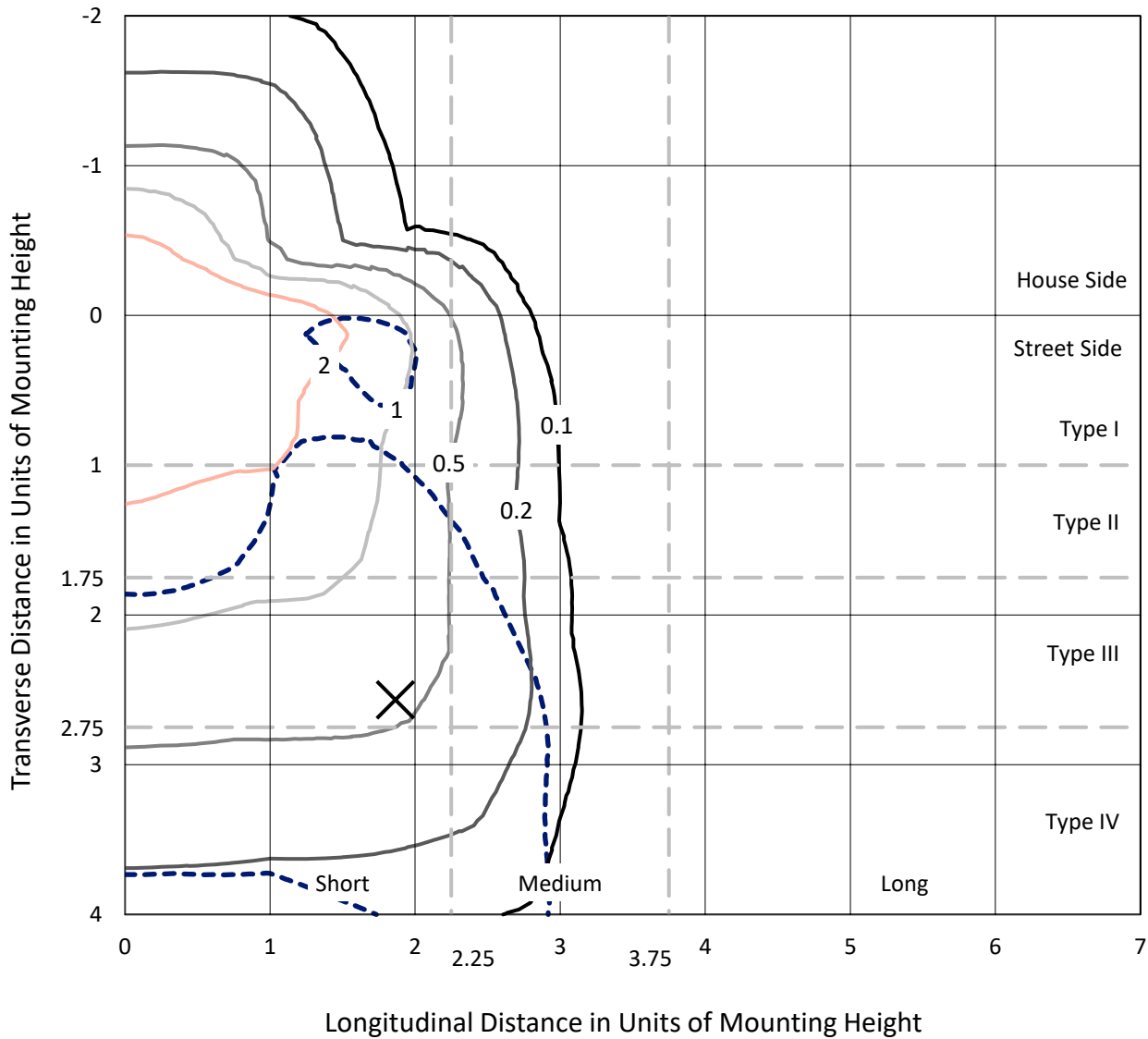
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

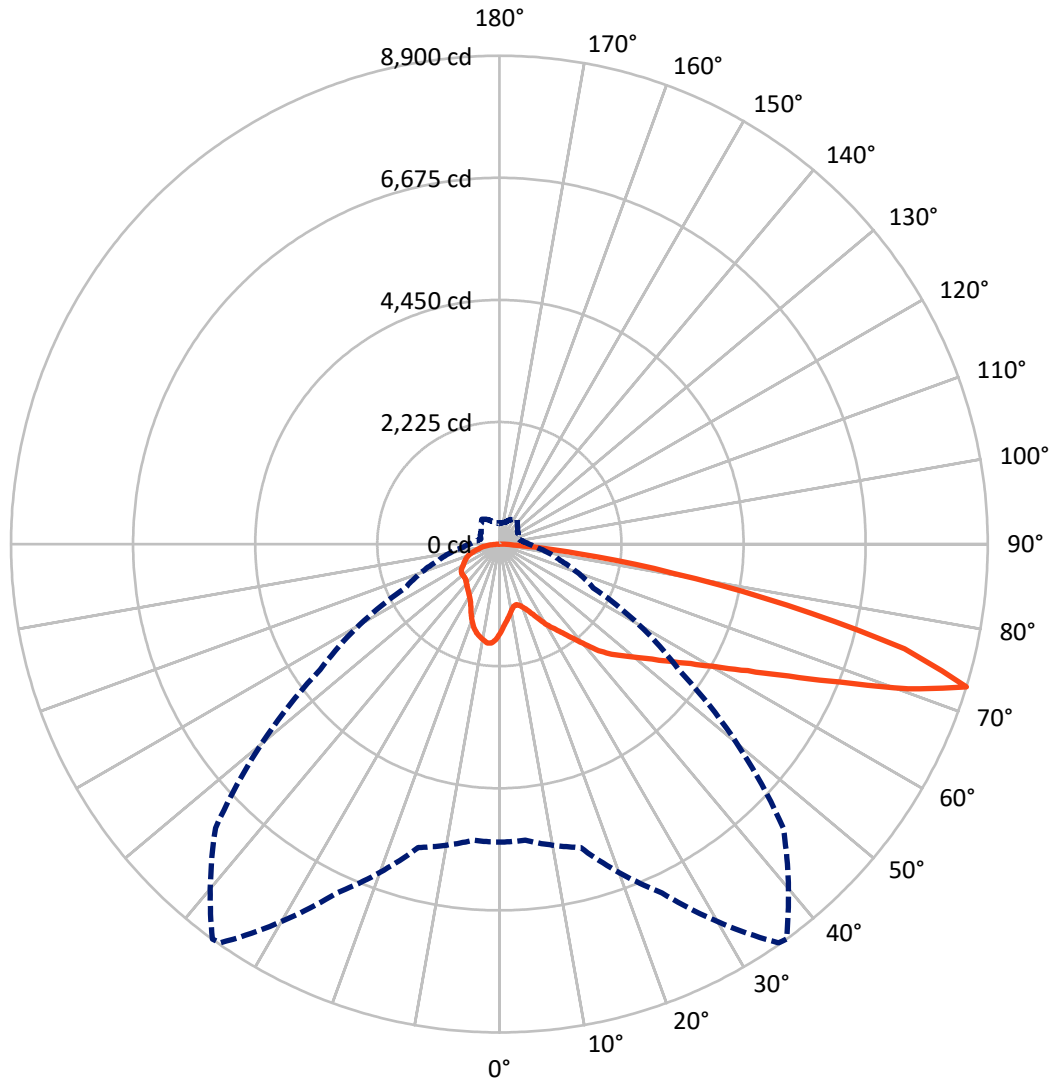
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 36-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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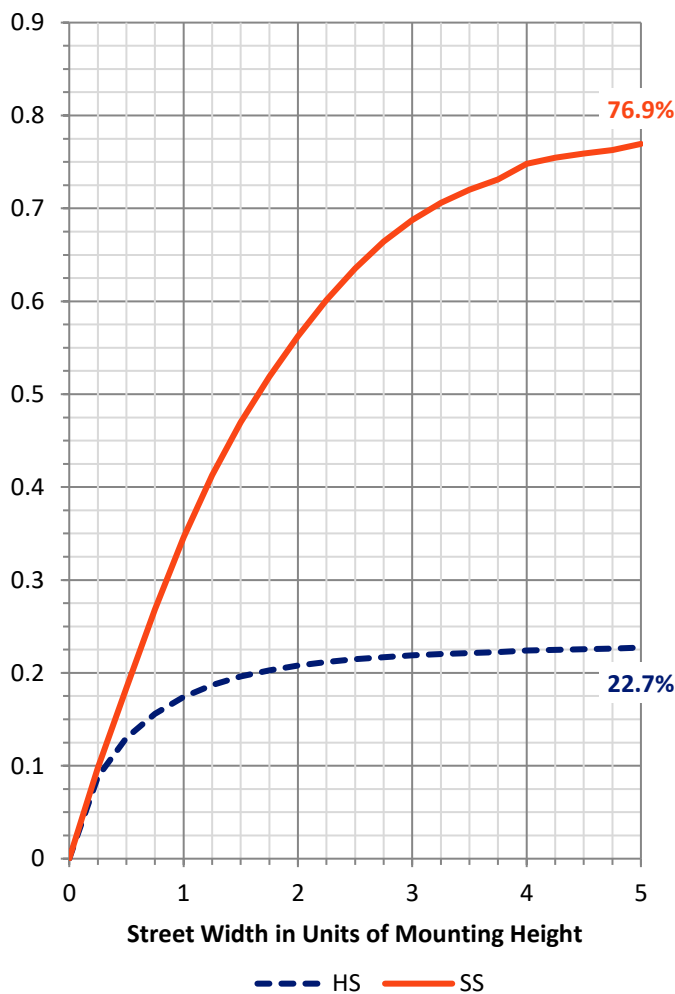
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2560.5	0.0	2560.5
	% Fixture	23.1	0.0	23.1
Street Side	Lumens	8545.8	0.0	8545.8
	% Fixture	76.9	0.0	76.9
Total	Lumens	11106.3	0.0	11106.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.9	1.4
10°-20°	428.7	3.9
20°-30°	709.9	6.4
30°-40°	1063.2	9.6
40°-50°	1551.1	14.0
50°-60°	2207.7	19.9
60°-70°	2789.2	25.1
70°-80°	1987.6	17.9
80°-90°	217.0	2.0
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°	11106.3	100.0
0°-180°	11106.3	100.0

Coefficient of Utilization



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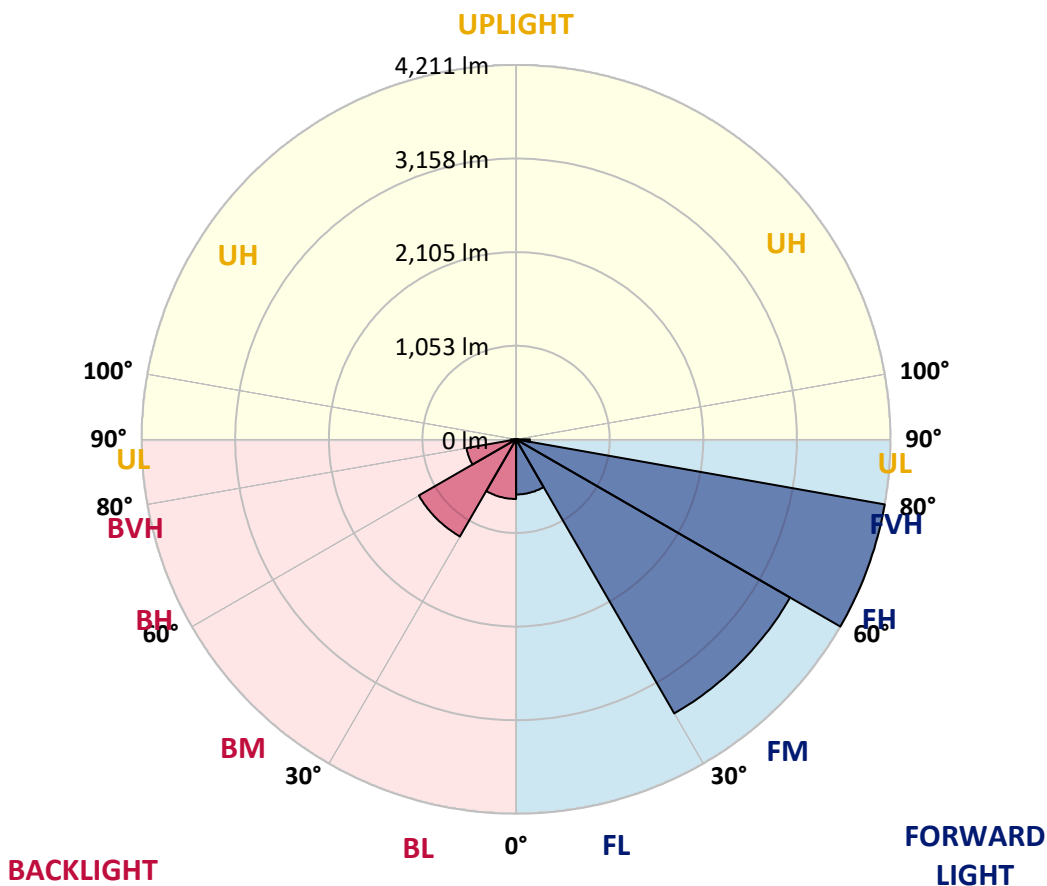
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	620.0	5.6			
FM (30°-60°)	3559.3	32.0			
FH (60°-80°)	4210.8	37.9			G2/5000
FVH (80°-90°)	155.7	1.4			G2/225
BL (0°-30°)	670.5	6.0	B2/1000		
BM (30°-60°)	1262.7	11.4	B2/2500		
BH (60°-80°)	566.1	5.1	B2/1000		G2/1000
BVH (80°-90°)	61.2	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	1625.5	1625.5	1625.5	1625.5	1625.5	1625.5	1625.5	1625.5	1625.5	1625.5	1625.5
2.5°	1482.9	1480.4	1475.4	1490.3	1505.1	1503.5	1524.1	1543.9	1565.3	1587.5	1617.2
5°	1364.2	1362.5	1358.4	1380.6	1402.9	1402.1	1435.9	1468.0	1511.7	1559.5	1618.9
7.5°	1245.5	1241.3	1247.1	1275.1	1306.5	1309.8	1355.9	1408.7	1472.1	1543.9	1627.9
10°	1140.8	1140.0	1142.4	1173.8	1220.7	1224.0	1283.4	1356.7	1440.8	1536.4	1648.5
12.5°	1113.6	1111.9	1105.3	1121.0	1156.4	1161.4	1226.5	1316.4	1419.4	1540.6	1676.6
15°	1158.1	1154.0	1130.9	1123.5	1140.8	1144.9	1200.1	1292.5	1407.0	1548.0	1712.0
17.5°	1234.8	1232.3	1188.6	1158.1	1169.6	1172.9	1214.1	1288.3	1403.7	1562.8	1755.7
20°	1346.9	1336.1	1267.7	1221.6	1221.6	1226.5	1251.2	1306.5	1407.8	1580.9	1805.1
22.5°	1495.2	1473.8	1377.4	1314.7	1298.2	1304.8	1315.5	1351.8	1425.2	1611.4	1867.0
25°	1661.7	1641.9	1527.4	1439.2	1416.1	1418.6	1409.5	1416.1	1463.1	1653.5	1943.6
27.5°	1838.9	1825.8	1703.8	1591.7	1555.4	1555.4	1523.2	1507.6	1515.8	1701.3	2029.3
30°	1997.2	1979.1	1876.0	1753.2	1705.4	1705.4	1644.4	1610.6	1590.8	1759.8	2143.9
32.5°	2080.5	2069.7	2001.3	1907.4	1848.8	1839.8	1787.0	1747.4	1701.3	1846.4	2298.9
35°	2189.3	2186.8	2145.6	2072.2	1998.0	1984.8	1948.6	1917.2	1837.3	1954.3	2505.0
37.5°	2326.1	2322.0	2315.4	2271.7	2182.7	2180.2	2148.0	2110.1	2006.3	2110.1	2754.7
40°	2479.4	2472.0	2463.7	2462.9	2409.3	2400.3	2397.8	2354.9	2209.9	2298.1	3015.2
42.5°	2690.4	2664.9	2587.4	2622.0	2661.6	2653.3	2684.6	2620.3	2463.7	2521.4	3261.6
45°	2950.1	2887.4	2734.1	2744.0	2843.7	2860.2	2969.0	2953.4	2743.2	2779.4	3521.3
47.5°	3105.8	3051.4	2908.8	2900.6	3025.1	3045.7	3282.2	3311.9	3044.0	3090.2	3841.9
50°	3233.6	3195.7	3078.6	3090.2	3222.1	3242.7	3593.0	3656.5	3327.6	3408.3	4214.5
52.5°	3387.7	3333.3	3242.7	3297.1	3458.6	3483.4	3938.4	4006.8	3583.1	3757.8	4600.2
55°	3474.3	3452.0	3453.7	3536.9	3739.7	3773.5	4300.2	4288.7	3817.2	4057.0	4890.4
57.5°	3673.8	3665.5	3741.4	3772.7	4067.8	4111.4	4662.1	4563.1	4029.8	4288.7	5029.7
60°	4025.7	4005.1	4071.1	4118.9	4473.3	4535.1	5066.0	4831.9	4174.1	4460.9	4982.7
62.5°	4520.3	4494.7	4497.2	4573.0	5016.5	5081.6	5515.2	5056.1	4218.6	4487.3	4685.1
65°	5135.2	5098.1	5056.1	5159.1	5737.7	5792.1	6004.0	5219.3	4112.3	4233.4	4063.6
67.5°	5783.9	5753.4	5703.9	5919.9	6671.6	6704.6	6552.1	5205.3	3775.1	3554.2	2850.3
70°	5821.8	5829.2	6063.3	6844.7	7890.7	7899.0	7070.6	4923.4	3057.2	2303.8	1420.2
72.5°	5431.1	5418.7	5723.7	7013.7	8871.6	8899.6	7315.4	3988.6	1889.2	1149.0	666.0
75°	4411.5	4432.9	4753.6	6136.7	7603.9	7628.6	5963.6	2351.6	897.6	562.2	426.1
77.5°	1899.1	2018.6	2650.8	4323.3	5445.9	5369.3	3073.7	952.9	478.9	400.6	326.4
80°	548.1	595.1	944.6	2055.7	3263.3	3205.6	1216.6	356.9	333.8	300.9	234.1
82.5°	177.2	196.2	346.2	818.5	1462.3	1460.6	461.6	211.0	218.4	204.4	150.8
85°	49.5	56.9	106.3	248.1	452.5	443.5	133.5	99.7	116.2	117.9	75.0
87.5°	0.0	0.0	0.8	1.6	1.6	1.6	3.3	14.8	33.8	42.9	30.5
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°	1625.5	1625.5	1625.5	1625.5	1625.5	1625.5	1625.5	1625.5	1625.5	1625.5	1625.5
2.5°	1635.3	1632.9	1666.7	1693.0	1717.8	1734.3	1739.2	1742.5	1749.1	1752.4	1749.1
5°	1646.9	1659.3	1715.3	1756.5	1789.5	1809.3	1810.1	1808.4	1813.4	1809.3	1806.8
7.5°	1671.6	1695.5	1766.4	1810.1	1831.5	1832.3	1812.6	1789.5	1777.9	1768.1	1764.8
10°	1704.6	1740.0	1817.5	1846.4	1839.8	1809.3	1765.6	1729.3	1708.7	1693.9	1690.6
12.5°	1749.9	1789.5	1862.8	1862.0	1820.8	1766.4	1715.3	1671.6	1641.9	1624.6	1618.9
15°	1792.8	1843.1	1895.8	1857.1	1792.0	1726.0	1660.1	1601.6	1562.0	1534.8	1529.8
17.5°	1845.5	1899.1	1919.7	1841.4	1755.7	1670.8	1582.6	1505.9	1452.4	1420.2	1417.7
20°	1906.5	1954.3	1931.3	1814.2	1708.7	1597.4	1477.9	1392.2	1334.5	1303.2	1305.6
22.5°	1977.4	2012.0	1934.6	1777.1	1643.6	1493.6	1360.0	1277.6	1238.9	1222.4	1223.2
25°	2053.3	2075.5	1928.8	1726.8	1543.9	1366.6	1238.9	1201.0	1197.7	1193.5	1195.2
27.5°	2143.1	2138.2	1911.5	1656.0	1409.5	1219.1	1154.0	1163.9	1177.1	1175.4	1177.1
30°	2263.4	2216.5	1889.2	1557.9	1249.6	1095.5	1103.7	1131.7	1149.0	1150.7	1155.6
32.5°	2401.1	2303.0	1853.8	1424.3	1097.1	1026.2	1056.7	1090.5	1111.1	1115.2	1121.8
35°	2565.1	2401.9	1791.1	1257.8	987.5	985.0	1013.0	1036.1	1058.4	1060.0	1060.0
37.5°	2753.9	2500.8	1691.4	1074.0	919.9	949.6	975.9	980.9	986.6	981.7	984.2
40°	2927.0	2596.4	1549.6	906.7	864.7	918.2	940.5	924.0	905.9	893.5	896.0
42.5°	3072.0	2661.6	1361.7	789.6	808.6	890.2	907.5	873.7	838.3	815.2	818.5
45°	3235.3	2721.7	1140.8	710.5	760.8	870.4	882.0	838.3	792.9	758.3	753.4
47.5°	3460.3	2844.5	944.6	655.3	727.0	859.7	878.7	819.3	760.0	708.0	702.3
50°	3738.1	3018.5	780.6	619.0	711.3	853.9	877.8	798.7	727.8	666.8	662.7
52.5°	4041.4	3188.3	659.4	591.0	695.7	836.6	873.7	775.6	694.0	628.1	623.1
55°	4243.3	3255.0	577.8	564.6	670.1	809.4	857.2	753.4	642.9	582.8	575.3
57.5°	4302.7	3169.3	520.9	540.7	637.2	771.5	825.9	706.4	611.6	563.8	558.0
60°	4200.5	2953.4	485.5	520.9	600.9	722.9	771.5	679.2	586.9	544.0	539.9
62.5°	3912.0	2620.3	458.3	500.3	563.8	671.8	736.9	646.2	559.7	525.9	520.1
65°	3331.7	2148.9	436.0	478.9	528.4	623.1	699.0	613.3	530.0	504.5	497.9
67.5°	2330.2	1509.2	412.1	453.3	492.9	576.2	659.4	582.8	499.5	480.5	474.0
70°	1139.1	800.4	383.3	423.7	455.0	528.4	619.8	545.7	459.1	448.4	439.3
72.5°	542.4	447.6	349.5	383.3	403.1	464.9	553.9	492.1	411.3	388.2	372.6
75°	363.5	318.2	305.0	335.5	340.4	389.9	474.8	424.5	362.7	336.3	323.1
77.5°	275.3	243.2	256.3	283.5	273.7	320.6	390.7	378.3	327.2	303.3	296.7
80°	193.7	177.2	203.6	220.1	212.7	272.8	352.0	323.9	269.5	243.2	238.2
82.5°	122.0	118.7	150.0	152.5	155.0	216.0	289.3	254.7	209.4	172.3	159.9
85°	61.0	67.6	89.8	89.8	89.0	111.3	164.9	143.4	112.9	89.8	87.4
87.5°	20.6	28.8	38.7	31.3	23.9	19.0	21.4	26.4	28.0	27.2	27.2
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)