

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: P637556

Luminaire Tested: GWS-SA4D-722-U-T2-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637556
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-19)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4D-722-U-T2-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17896.9 lumens
Efficiency: N/A
Efficacy: 110.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G3

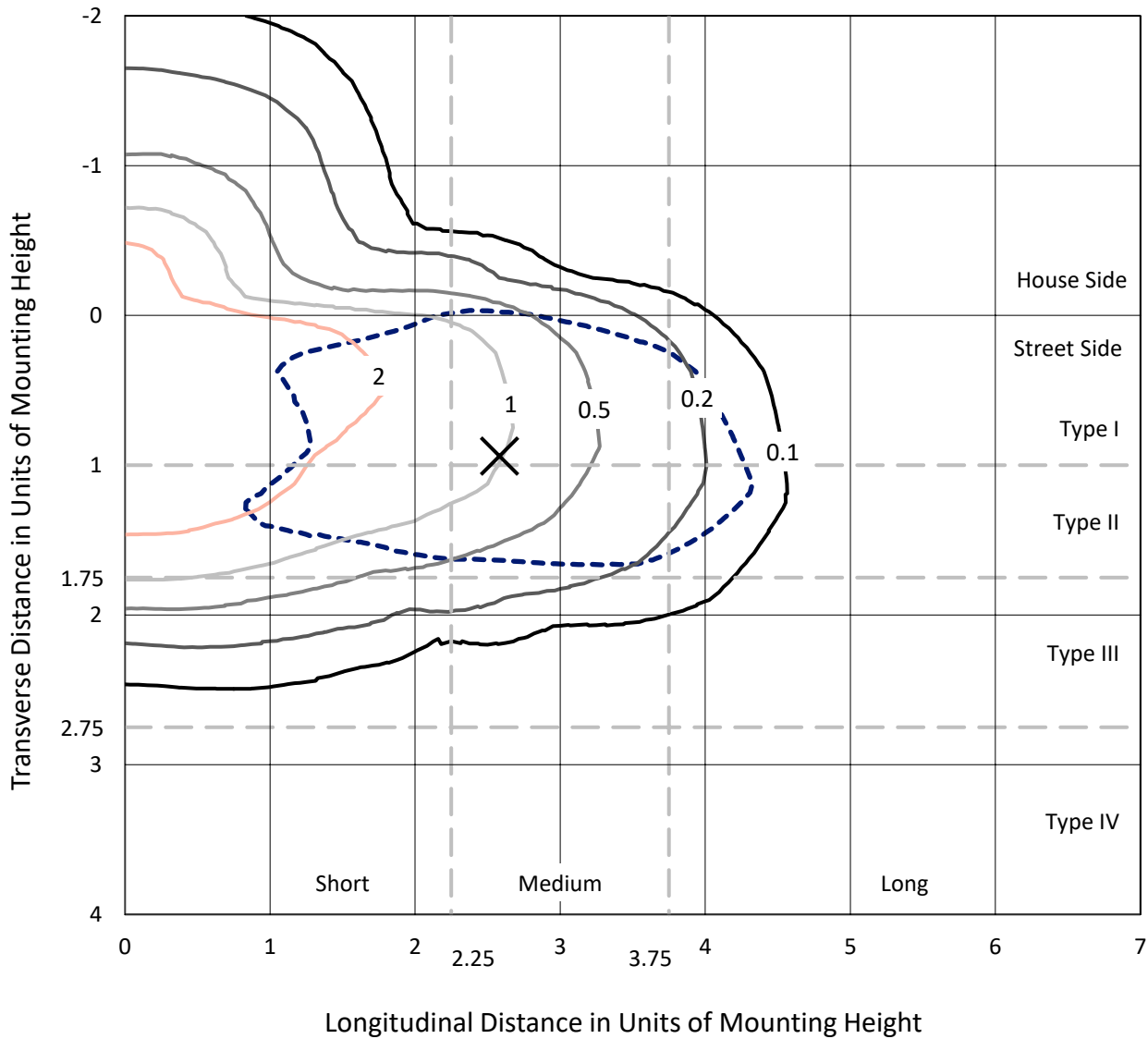
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

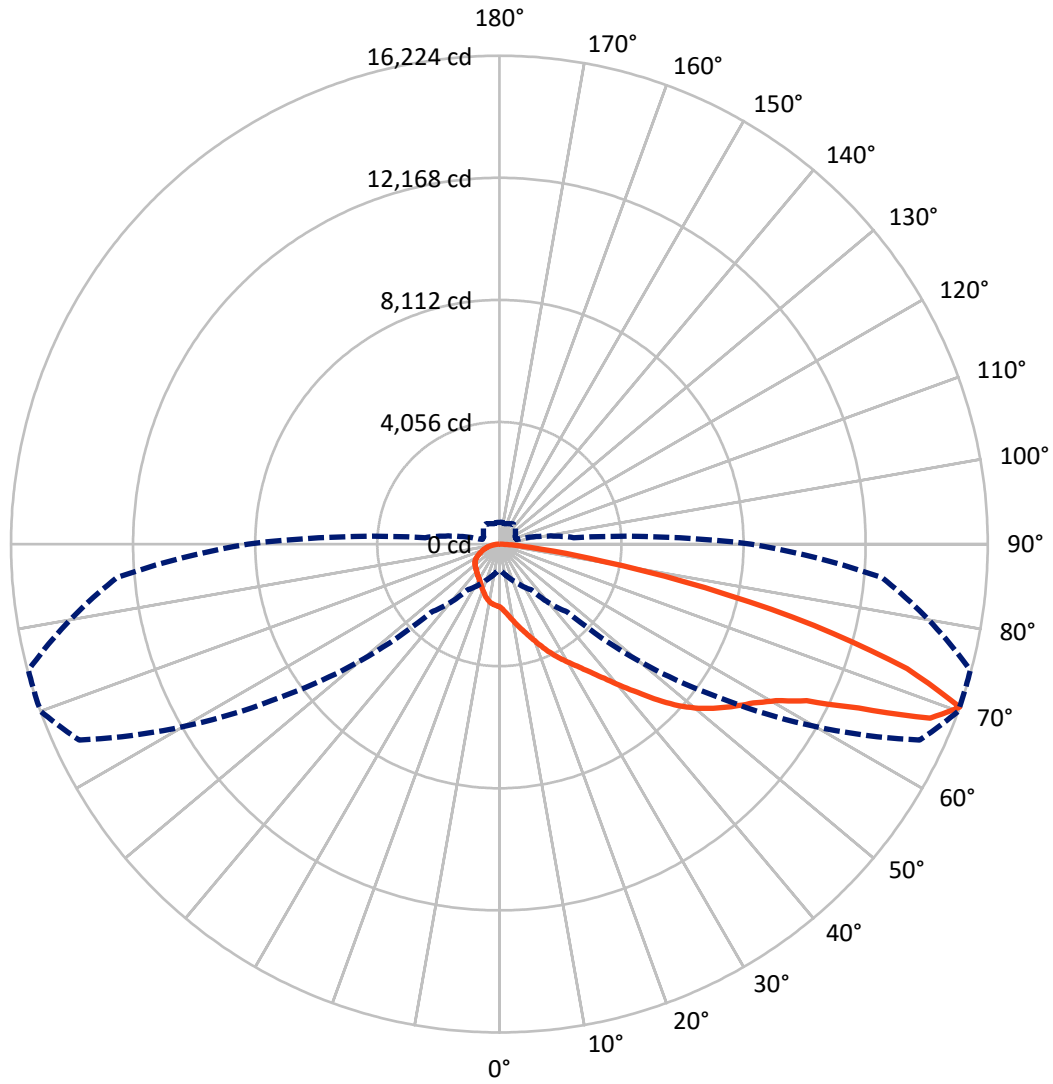
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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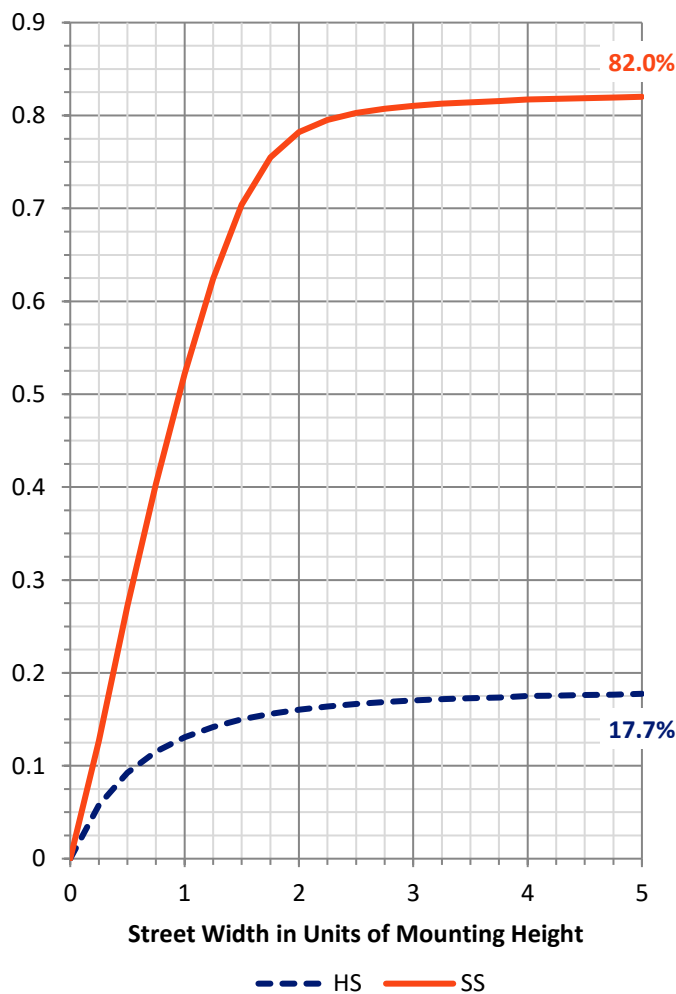
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3207.2	0.0	3207.2
	% Fixture	17.9	0.0	17.9
Street Side	Lumens	14689.7	0.0	14689.7
	% Fixture	82.1	0.0	82.1
Total	Lumens	17896.9	0.0	17896.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.1	1.2
10°-20°	690.1	3.9
20°-30°	1222.5	6.8
30°-40°	1839.9	10.3
40°-50°	2783.5	15.6
50°-60°	3987.5	22.3
60°-70°	4407.8	24.6
70°-80°	2487.4	13.9
80°-90°	266.1	1.5
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°	17896.9	100.0
0°-180°	17896.9	100.0

Coefficient of Utilization



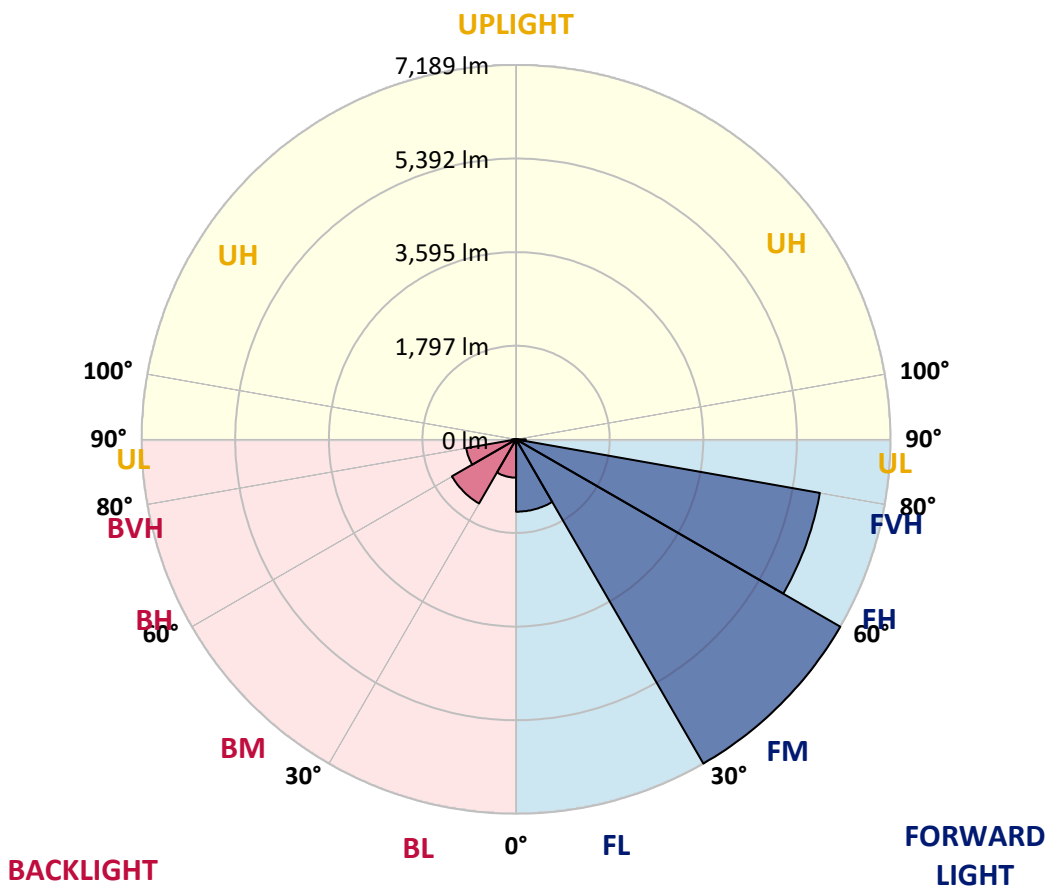
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1389.3	7.8			
FM (30°-60°)	7189.2	40.2			
FH (60°-80°)	5923.1	33.1			G3/7500
FVH (80°-90°)	188.1	1.1			G2/225
BL (0°-30°)	735.4	4.1	B2/1000		
BM (30°-60°)	1421.8	7.9	B2/2500		
BH (60°-80°)	972.1	5.4	B2/1000		G2/1000
BVH (80°-90°)	78.0	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	2087.1	2087.1	2087.1	2087.1	2087.1	2087.1	2087.1	2087.1	2087.1	2087.1	2087.1
2.5°	2312.2	2308.3	2310.9	2308.3	2294.1	2259.1	2230.7	2194.5	2169.9	2155.7	2122.1
5°	2583.7	2579.8	2570.8	2557.9	2532.0	2484.1	2413.0	2334.1	2286.3	2250.1	2179.0
7.5°	2779.0	2779.0	2777.7	2762.2	2744.1	2693.6	2609.6	2506.1	2436.3	2374.2	2257.8
10°	2878.6	2885.0	2894.1	2916.1	2912.2	2885.0	2806.1	2694.9	2607.0	2534.6	2361.3
12.5°	2932.9	2936.8	2952.3	2997.5	3044.1	3050.5	3004.0	2887.6	2791.9	2694.9	2476.4
15°	3002.7	3004.0	3024.7	3079.0	3147.5	3216.1	3204.4	3088.0	2989.8	2882.4	2604.4
17.5°	3057.0	3066.1	3103.6	3166.9	3252.3	3346.7	3403.6	3331.2	3209.6	3086.8	2744.1
20°	3076.4	3082.9	3132.0	3229.0	3345.4	3478.6	3605.3	3585.9	3463.1	3318.2	2901.8
22.5°	3146.2	3146.2	3182.4	3263.9	3401.0	3595.0	3800.6	3851.0	3742.4	3573.0	3071.2
25°	3300.1	3295.0	3311.8	3345.4	3448.8	3688.1	3993.3	4144.6	4023.0	3832.9	3240.6
27.5°	3510.9	3508.3	3507.0	3512.2	3547.1	3769.5	4156.2	4418.7	4297.1	4082.5	3391.9
30°	3739.8	3732.0	3748.9	3733.3	3725.6	3866.5	4294.6	4664.4	4570.0	4329.5	3517.4
32.5°	4051.4	4037.2	4033.3	3982.9	3951.9	4017.8	4405.8	4943.7	4868.7	4595.9	3658.3
35°	4462.7	4449.7	4383.8	4303.6	4211.8	4242.8	4544.1	5216.6	5221.8	4929.5	3843.3
37.5°	4877.8	4880.4	4828.6	4639.8	4545.4	4527.3	4754.9	5548.9	5660.1	5327.8	4082.5
40°	5223.0	5238.6	5238.6	5039.4	4898.5	4881.7	5051.1	5943.3	6164.5	5816.6	4385.1
42.5°	5485.6	5499.8	5545.0	5401.5	5252.8	5311.0	5410.6	6339.0	6736.0	6420.5	4767.9
45°	5773.9	5785.6	5810.1	5727.4	5640.7	5795.9	5817.9	6812.3	7390.4	7098.1	5212.7
47.5°	6156.7	6146.4	6148.9	6088.2	6020.9	6271.8	6266.6	7210.6	8022.7	7840.4	5695.0
50°	6632.6	6652.0	6633.9	6513.6	6434.7	6663.6	6693.4	7651.6	8578.8	8574.9	6181.3
52.5°	7090.4	7098.1	7193.8	7199.0	7037.3	6989.5	7067.1	8096.4	9048.2	9247.3	6648.1
55°	7113.6	7143.4	7430.5	7637.4	7898.6	7514.5	7444.7	8520.6	9502.1	9905.6	7133.0
57.5°	6618.4	6666.2	7153.7	7599.9	8326.6	8415.8	8091.3	9068.9	9956.0	10553.4	7694.3
60°	5560.6	5660.1	6322.2	7005.0	8133.9	9063.7	9414.2	9813.7	10552.1	11215.5	8375.8
62.5°	3551.0	3589.8	4518.3	5661.4	7266.2	9000.3	10854.7	11126.3	11459.9	12078.1	9425.8
65°	1778.1	1902.2	2446.6	3379.0	5239.9	7930.9	11582.8	13530.3	13121.6	13554.8	11127.6
67.5°	1206.5	1246.6	1522.0	2030.3	3072.5	5618.8	11131.5	15555.3	15435.1	15506.2	12941.9
70°	889.7	915.6	1132.8	1438.0	1858.3	3190.2	8862.0	15402.7	16223.9	16198.0	12751.8
72.5°	649.2	662.1	826.3	1097.9	1377.2	1650.1	5411.8	12442.7	14162.6	14908.8	11152.2
75°	472.0	487.5	574.2	821.2	1070.7	1029.3	2671.7	8987.4	10800.4	12235.8	9085.7
77.5°	351.7	371.1	411.2	514.7	750.0	737.1	1154.8	5836.0	6985.6	7991.7	5519.2
80°	253.5	257.3	280.6	329.8	475.9	431.9	549.6	3042.8	3488.9	3822.6	2163.4
82.5°	153.9	157.8	187.5	203.0	294.8	271.6	285.8	985.4	1412.1	1498.8	808.2
85°	45.3	47.8	85.3	93.1	122.8	116.4	115.1	400.9	478.5	611.7	318.1
87.5°	0.0	0.0	0.0	0.0	1.3	7.8	14.2	71.1	107.3	148.7	77.6
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°	2087.1	2087.1	2087.1	2087.1	2087.1	2087.1	2087.1	2087.1	2087.1	2087.1	2087.1
2.5°	2109.1	2079.4	2063.9	2036.7	2017.3	1997.9	1978.5	1960.4	1952.7	1941.0	1943.6
5°	2146.6	2100.1	2053.5	2000.5	1955.2	1917.7	1884.1	1854.4	1841.5	1829.8	1835.0
7.5°	2203.5	2133.7	2044.5	1947.5	1876.4	1824.6	1789.7	1769.0	1762.6	1753.5	1753.5
10°	2275.9	2171.2	2014.7	1876.4	1791.0	1749.6	1734.1	1732.8	1739.3	1740.6	1738.0
12.5°	2356.1	2207.4	1970.8	1792.3	1719.9	1707.0	1718.6	1740.6	1762.6	1774.2	1771.6
15°	2438.9	2230.7	1895.8	1712.1	1668.2	1685.0	1722.5	1766.4	1809.1	1831.1	1829.8
17.5°	2516.5	2235.9	1798.8	1634.5	1622.9	1665.6	1730.2	1798.8	1857.0	1888.0	1889.3
20°	2603.1	2226.8	1699.2	1564.7	1577.6	1647.5	1732.8	1815.6	1884.1	1915.2	1922.9
22.5°	2682.0	2195.8	1602.2	1498.8	1538.9	1625.5	1712.1	1789.7	1850.5	1880.2	1890.6
25°	2753.1	2136.3	1496.2	1443.2	1509.1	1594.5	1660.4	1714.7	1757.4	1775.5	1789.7
27.5°	2791.9	2047.1	1416.0	1399.2	1480.7	1550.5	1586.7	1603.5	1617.7	1612.6	1622.9
30°	2799.7	1935.9	1346.2	1364.3	1438.0	1489.7	1497.5	1480.7	1456.1	1416.0	1425.1
32.5°	2791.9	1807.8	1288.0	1326.8	1390.1	1421.2	1410.8	1366.9	1307.4	1245.3	1249.2
35°	2794.5	1678.5	1240.1	1285.4	1334.5	1351.3	1325.5	1264.7	1201.3	1144.4	1141.9
37.5°	2823.0	1569.9	1200.0	1245.3	1280.2	1282.8	1254.4	1191.0	1158.7	1116.0	1110.8
40°	2901.8	1489.7	1163.8	1205.2	1227.2	1225.9	1193.6	1148.3	1170.3	1156.1	1152.2
42.5°	3031.2	1440.6	1134.1	1162.5	1178.1	1180.6	1154.8	1126.3	1174.2	1156.1	1149.6
45°	3239.3	1438.0	1113.4	1119.9	1144.4	1162.5	1144.4	1112.1	1130.2	1042.3	1025.5
47.5°	3486.3	1482.0	1097.9	1082.4	1125.0	1157.4	1128.9	1077.2	1039.7	959.5	947.9
50°	3783.8	1571.2	1083.7	1042.3	1096.6	1138.0	1109.5	1038.4	981.5	938.8	932.4
52.5°	4136.8	1688.9	1065.6	997.0	1053.9	1127.6	1109.5	1034.5	959.5	920.7	914.3
55°	4506.6	1824.6	1044.9	942.7	1006.1	1130.2	1118.6	1007.4	942.7	922.0	916.8
57.5°	4965.7	1987.6	1007.4	879.3	963.4	1106.9	1082.4	991.8	931.1	914.3	909.1
60°	5561.9	2229.4	936.2	814.7	914.3	1065.6	1050.0	966.0	900.0	885.8	881.9
62.5°	6505.9	2639.3	849.6	752.6	856.1	978.9	1002.2	916.8	861.2	859.9	858.7
65°	8044.7	3132.0	747.4	697.0	795.3	907.8	938.8	866.4	821.2	835.4	834.1
67.5°	9123.2	3174.7	663.4	638.8	724.2	830.2	875.5	814.7	765.5	792.7	791.4
70°	8356.4	2476.4	591.0	578.0	647.9	746.1	806.9	750.0	700.9	726.8	721.6
72.5°	7047.7	1898.3	522.4	514.7	570.3	658.2	719.0	685.4	633.6	633.6	622.0
75°	5664.0	1566.0	450.0	446.1	483.6	569.0	637.5	580.6	532.8	530.2	522.4
77.5°	3248.4	1026.8	377.6	375.0	386.7	475.9	495.3	483.6	447.4	430.6	425.4
80°	1294.4	534.1	297.4	280.6	292.3	349.2	390.5	371.1	340.1	319.4	307.8
82.5°	501.7	267.7	209.5	183.6	200.4	252.2	283.2	276.7	256.0	209.5	196.6
85°	204.3	130.6	125.4	106.0	116.4	135.8	162.9	141.0	116.4	82.8	78.9
87.5°	54.3	47.8	46.6	28.4	22.0	6.5	1.3	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)