

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: P637563

Luminaire Tested: GWS-SA4D-722-U-T3-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P637563  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-26)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4D-722-U-T3-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (64) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

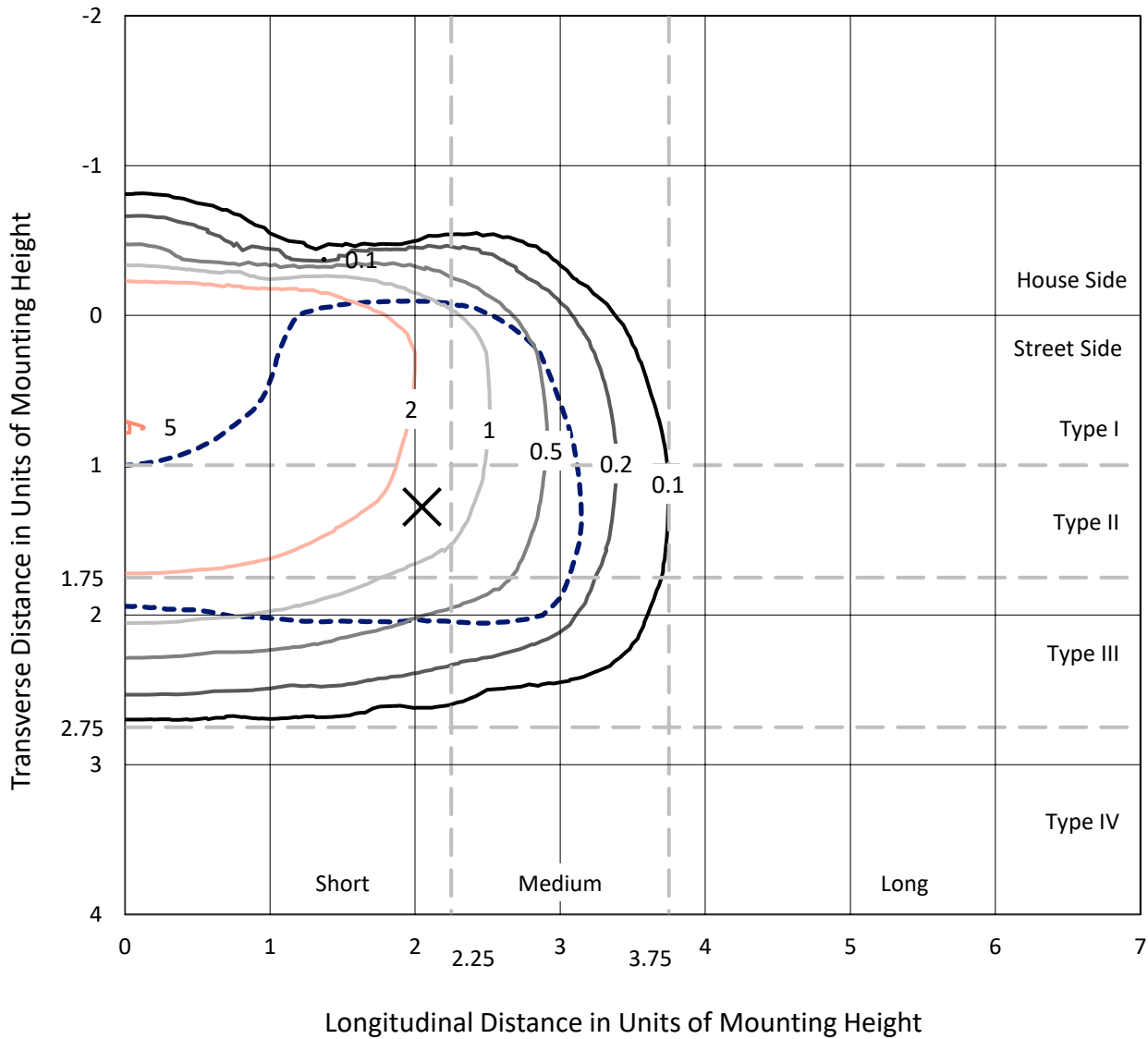
Lumens per Lamp: N/A  
Luminaire Lumens: 13242.9 lumens  
Efficiency: N/A  
Efficacy: 81.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 162.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

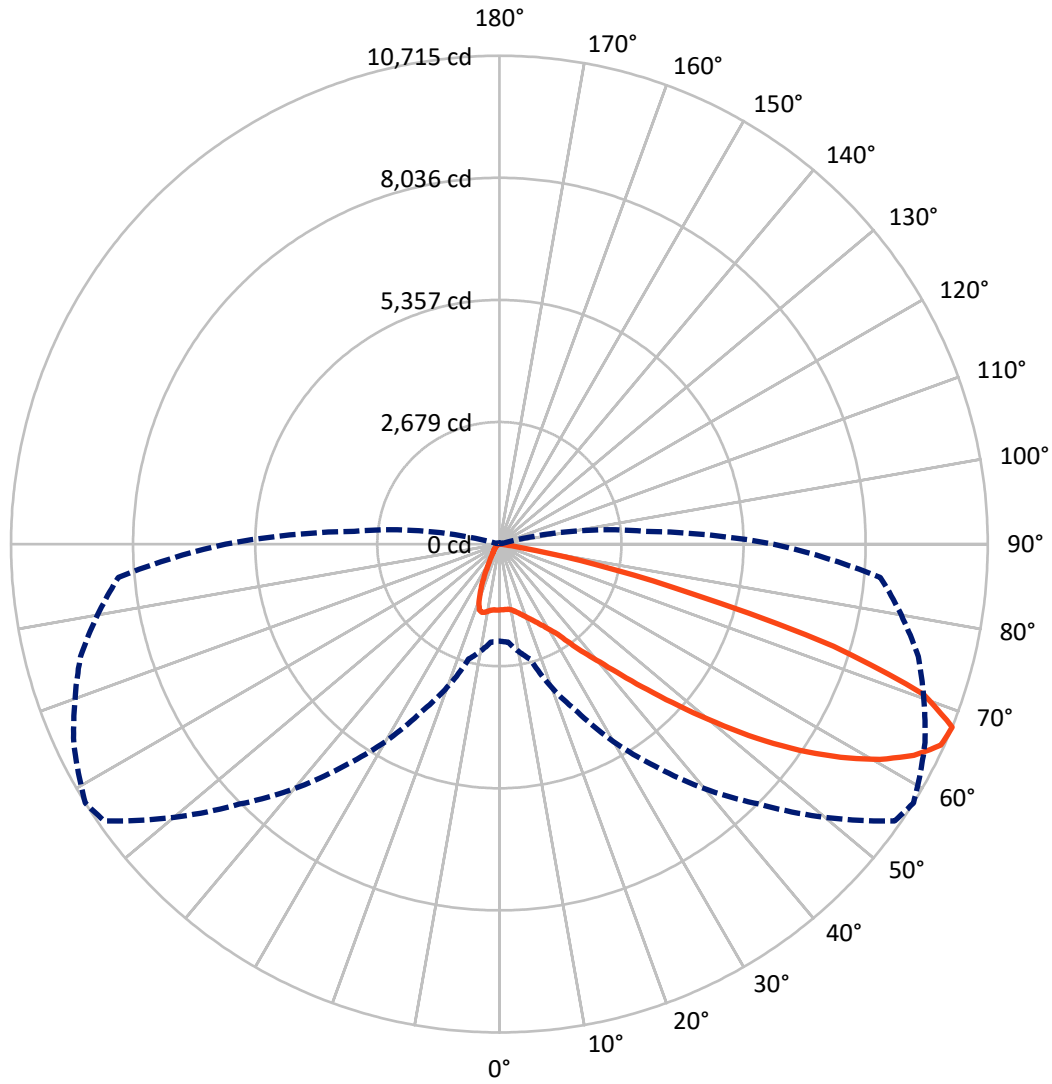
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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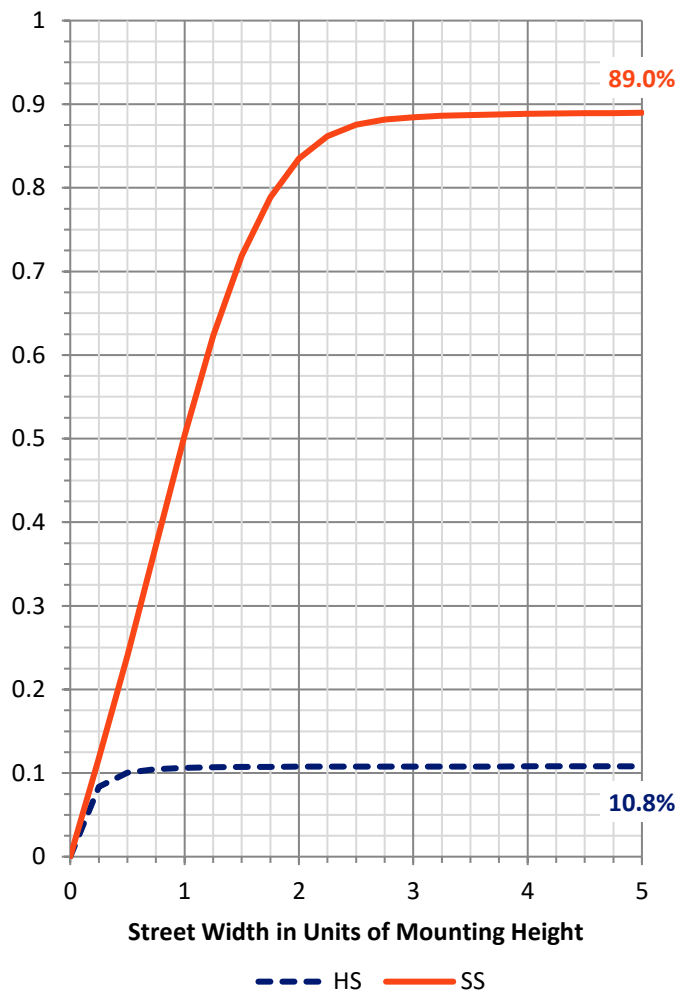
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1444.8	0.0	1444.8
	% Fixture	10.9	0.0	10.9
<b>Street Side</b>	Lumens	11798.1	0.0	11798.1
	% Fixture	89.1	0.0	89.1
<b>Total</b>	Lumens	13242.9	0.0	13242.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	135.6	1.0
10°-20°	380.6	2.9
20°-30°	664.4	5.0
30°-40°	1186.5	9.0
40°-50°	2168.7	16.4
50°-60°	3606.7	27.2
60°-70°	3917.5	29.6
70°-80°	1150.2	8.7
80°-90°	32.8	0.2
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°	13242.9	100.0
0°-180°	13242.9	100.0

**Coefficient of Utilization**



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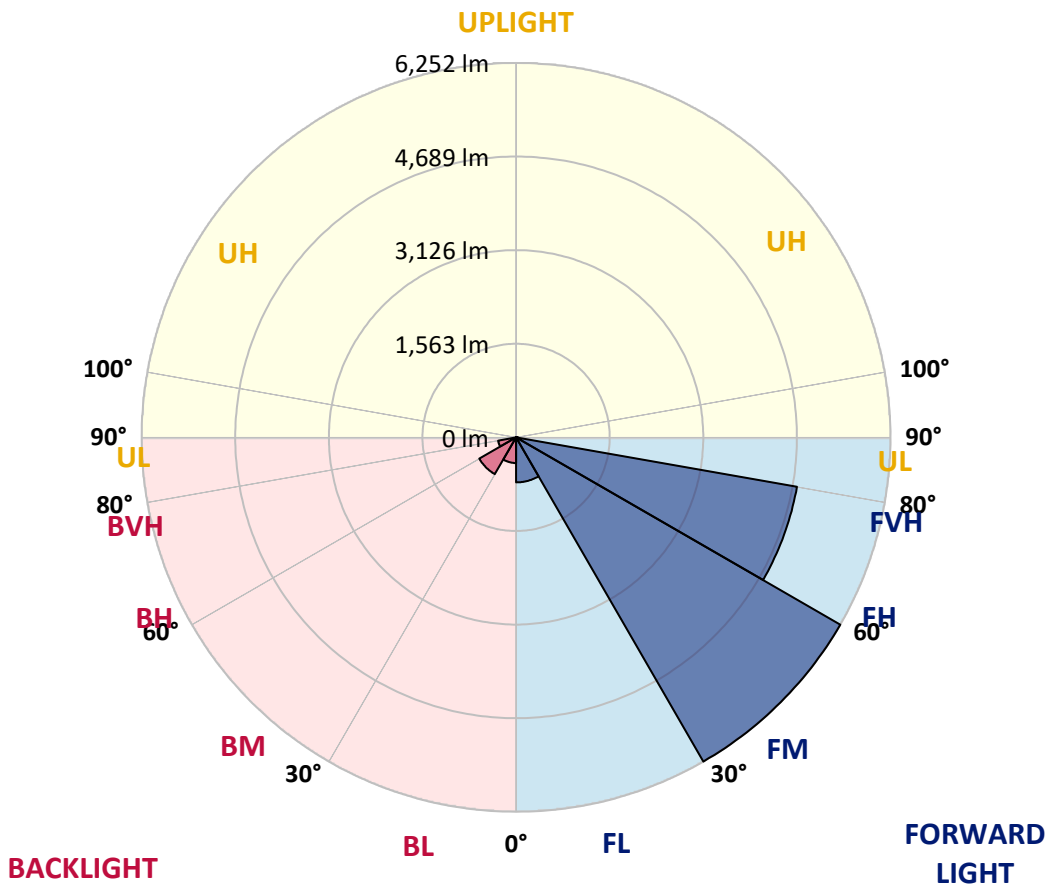
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	752.0	5.7			
FM (30°-60°)	6252.2	47.2			
FH (60°-80°)	4762.8	36.0			G2/5000
FVH (80°-90°)	31.1	0.2			G1/100
BL (0°-30°)	428.6	3.2	B1/500		
BM (30°-60°)	709.6	5.4	B1/1000		
BH (60°-80°)	305.0	2.3	B1/500		G1/500
BVH (80°-90°)	1.6	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 Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1443.1	1443.1	1443.1	1443.1	1443.1	1443.1	1443.1	1443.1	1443.1	1443.1	1443.1
2.5°	1415.9	1413.3	1413.3	1423.7	1425.0	1430.1	1441.8	1443.1	1449.5	1447.0	1437.9
5°	1342.2	1343.5	1351.3	1369.4	1384.9	1404.3	1432.7	1439.2	1453.4	1461.2	1456.0
7.5°	1273.7	1275.0	1286.6	1315.1	1344.8	1383.6	1430.1	1443.1	1471.5	1492.2	1493.5
10°	1247.8	1246.5	1258.2	1290.5	1329.3	1383.6	1450.8	1467.6	1510.3	1546.5	1553.0
12.5°	1255.6	1254.3	1265.9	1295.7	1338.3	1406.9	1487.0	1510.3	1564.6	1620.2	1631.9
15°	1286.6	1285.3	1293.1	1317.7	1364.2	1435.3	1533.6	1568.5	1637.0	1704.3	1722.4
17.5°	1379.7	1373.3	1365.5	1368.1	1395.2	1468.9	1593.1	1635.7	1721.1	1801.3	1816.8
20°	1545.2	1528.4	1507.7	1480.6	1467.6	1518.1	1661.6	1710.7	1814.2	1906.0	1908.6
22.5°	1794.8	1788.3	1740.5	1661.6	1606.0	1607.3	1741.8	1798.7	1925.4	2026.3	2012.0
25°	2142.6	2138.8	2065.1	1935.7	1790.9	1741.8	1843.9	1902.1	2057.3	2164.6	2119.4
27.5°	2574.5	2547.4	2460.7	2286.2	2070.2	1916.3	1973.2	2025.0	2196.9	2297.8	2212.5
30°	2950.8	2952.1	2870.6	2688.3	2445.2	2178.8	2131.0	2176.3	2325.0	2431.0	2327.5
32.5°	3312.9	3324.5	3235.3	3071.1	2804.7	2521.5	2357.3	2365.0	2489.2	2604.3	2478.8
35°	3649.1	3658.1	3596.1	3456.4	3208.1	2879.7	2672.8	2668.9	2736.2	2853.8	2689.6
37.5°	4025.4	4034.4	3973.6	3848.2	3615.5	3289.6	3031.0	3025.8	3053.0	3148.7	2961.2
40°	4426.2	4443.0	4375.8	4269.8	4047.3	3771.9	3447.4	3400.8	3373.7	3486.2	3312.9
42.5°	4832.3	4858.1	4834.8	4728.8	4538.7	4311.1	3987.9	3915.5	3857.3	3998.2	3814.6
45°	5336.6	5367.6	5357.2	5275.8	5128.4	4943.5	4638.3	4554.2	4527.1	4657.7	4439.2
47.5°	5821.5	5855.1	5892.6	5874.5	5769.7	5684.4	5345.6	5297.8	5290.0	5429.7	5090.9
50°	6182.2	6213.3	6356.8	6460.2	6531.4	6513.3	6219.7	6148.6	6137.0	6226.2	5778.8
52.5°	6440.8	6470.6	6668.4	6991.7	7252.9	7395.1	7099.0	7083.5	7020.1	6989.1	6422.7
55°	6641.3	6682.7	6890.8	7379.6	7905.9	8221.4	8036.5	7980.9	7818.0	7639.5	7020.1
57.5°	6681.4	6698.2	6991.7	7651.2	8412.8	8923.6	8923.6	8826.6	8512.4	8265.4	7710.7
60°	6321.9	6373.6	6770.6	7629.2	8630.0	9382.6	9659.3	9592.1	9168.0	8864.1	8375.3
62.5°	5524.0	5582.2	6065.9	7102.9	8412.8	9477.0	10216.6	10206.3	9727.9	9359.3	8926.2
65°	4236.1	4278.8	4700.4	5941.7	7494.7	9113.6	10614.9	10643.4	10170.1	9686.5	9116.2
67.5°	2128.4	2158.2	2613.3	4059.0	5940.4	8067.5	10587.8	10714.5	10304.6	9513.2	8390.8
70°	743.5	773.3	987.9	1741.8	3615.5	6160.2	9672.3	9879.2	9514.5	8120.6	6190.0
72.5°	254.7	269.0	409.9	646.5	1406.9	3651.7	7355.1	7666.7	7013.7	5451.6	3557.3
75°	144.8	153.9	219.8	350.4	589.6	1201.3	4172.8	4364.2	4088.7	2971.5	1463.8
77.5°	98.3	106.0	137.1	199.1	325.9	386.6	1701.7	2142.6	1868.5	969.8	373.7
80°	58.2	63.4	84.1	117.7	166.8	150.0	364.6	484.9	624.6	289.7	112.5
82.5°	27.2	31.0	54.3	77.6	84.1	63.4	107.3	130.6	175.9	142.2	46.6
85°	0.0	0.0	18.1	32.3	31.0	18.1	29.7	32.3	47.8	71.1	18.1
87.5°	0.0	0.0	0.0	0.0	0.0	1.3	2.6	3.9	7.8	14.2	7.8
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°	1443.1	1443.1	1443.1	1443.1	1443.1	1443.1	1443.1	1443.1	1443.1	1443.1	1443.1
2.5°	1448.3	1439.2	1449.5	1444.4	1449.5	1448.3	1437.9	1431.4	1431.4	1419.8	1415.9
5°	1466.4	1457.3	1459.9	1448.3	1445.7	1439.2	1426.3	1421.1	1421.1	1409.5	1405.6
7.5°	1506.4	1492.2	1489.6	1466.4	1456.0	1437.9	1414.6	1405.6	1404.3	1392.7	1388.8
10°	1569.8	1553.0	1541.4	1511.6	1481.9	1445.7	1396.5	1355.2	1331.9	1300.8	1298.3
12.5°	1647.4	1626.7	1608.6	1563.3	1514.2	1432.7	1287.9	1136.6	1043.5	969.8	975.0
15°	1734.0	1714.6	1686.2	1617.6	1516.8	1304.7	1002.1	769.4	655.6	594.8	592.2
17.5°	1828.4	1800.0	1753.4	1660.3	1435.3	997.0	651.7	460.3	400.9	380.2	375.0
20°	1916.3	1881.4	1823.2	1669.4	1200.0	675.0	407.3	356.9	346.5	340.1	340.1
22.5°	2009.5	1965.5	1878.8	1599.5	892.2	431.9	346.5	334.9	327.1	318.1	316.8
25°	2103.8	2047.0	1929.3	1417.2	584.5	340.1	324.6	311.6	297.4	283.2	279.3
27.5°	2184.0	2110.3	1968.1	1145.7	375.0	306.5	296.1	274.1	254.7	239.2	236.6
30°	2279.7	2185.3	1984.9	837.9	294.8	270.3	254.7	231.5	208.2	192.7	187.5
32.5°	2407.7	2304.3	1959.0	545.7	261.2	237.9	213.4	186.2	162.9	146.1	143.5
35°	2606.9	2484.0	1840.1	347.8	236.6	205.6	175.9	147.4	128.0	115.1	112.5
37.5°	2850.0	2736.2	1644.8	261.2	212.1	178.4	143.5	116.4	102.2	93.1	90.5
40°	3210.7	3051.7	1403.0	228.9	187.5	151.3	117.7	95.7	85.3	77.6	75.0
42.5°	3678.8	3424.1	1125.0	208.2	164.2	126.7	95.7	78.9	69.8	64.7	63.4
45°	4225.8	3787.4	831.5	187.5	142.2	104.7	78.9	64.7	58.2	54.3	53.0
47.5°	4785.7	4105.5	574.1	165.5	121.5	86.6	65.9	55.6	50.4	45.3	44.0
50°	5383.1	4374.5	391.8	143.5	103.4	71.1	56.9	50.4	44.0	40.1	38.8
52.5°	5821.5	4474.1	272.8	124.1	87.9	60.8	50.4	45.3	40.1	34.9	33.6
55°	6226.2	4471.5	206.9	104.7	75.0	53.0	45.3	40.1	34.9	31.0	29.7
57.5°	6629.6	4436.6	162.9	89.2	64.7	47.8	40.1	34.9	32.3	27.2	25.9
60°	6890.8	4304.7	126.7	75.0	55.6	41.4	34.9	31.0	27.2	23.3	22.0
62.5°	7029.2	4121.1	97.0	59.5	45.3	36.2	31.0	27.2	23.3	19.4	18.1
65°	6841.7	3795.2	76.3	46.6	34.9	31.0	25.9	22.0	18.1	14.2	12.9
67.5°	6010.2	3200.4	59.5	37.5	27.2	23.3	22.0	18.1	12.9	10.3	9.1
70°	4247.8	2191.8	46.6	28.4	20.7	18.1	16.8	14.2	10.3	7.8	6.5
72.5°	2331.4	1105.6	33.6	20.7	15.5	14.2	12.9	11.6	9.1	6.5	6.5
75°	897.4	303.9	24.6	14.2	10.3	10.3	9.1	9.1	7.8	5.2	5.2
77.5°	234.0	90.5	15.5	9.1	6.5	6.5	6.5	5.2	5.2	3.9	3.9
80°	75.0	29.7	9.1	6.5	5.2	3.9	3.9	2.6	3.9	2.6	2.6
82.5°	24.6	10.3	5.2	5.2	3.9	2.6	2.6	1.3	1.3	0.0	0.0
85°	9.1	5.2	3.9	2.6	2.6	2.6	1.3	0.0	0.0	0.0	0.0
87.5°	5.2	2.6	2.6	2.6	2.6	1.3	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)