

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: P632730

Luminaire Tested: GWS-SA2D-730-U-T4FT-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P632730  
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-SA2D-730-U-T4FT-W  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS  
Light Source: (32) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

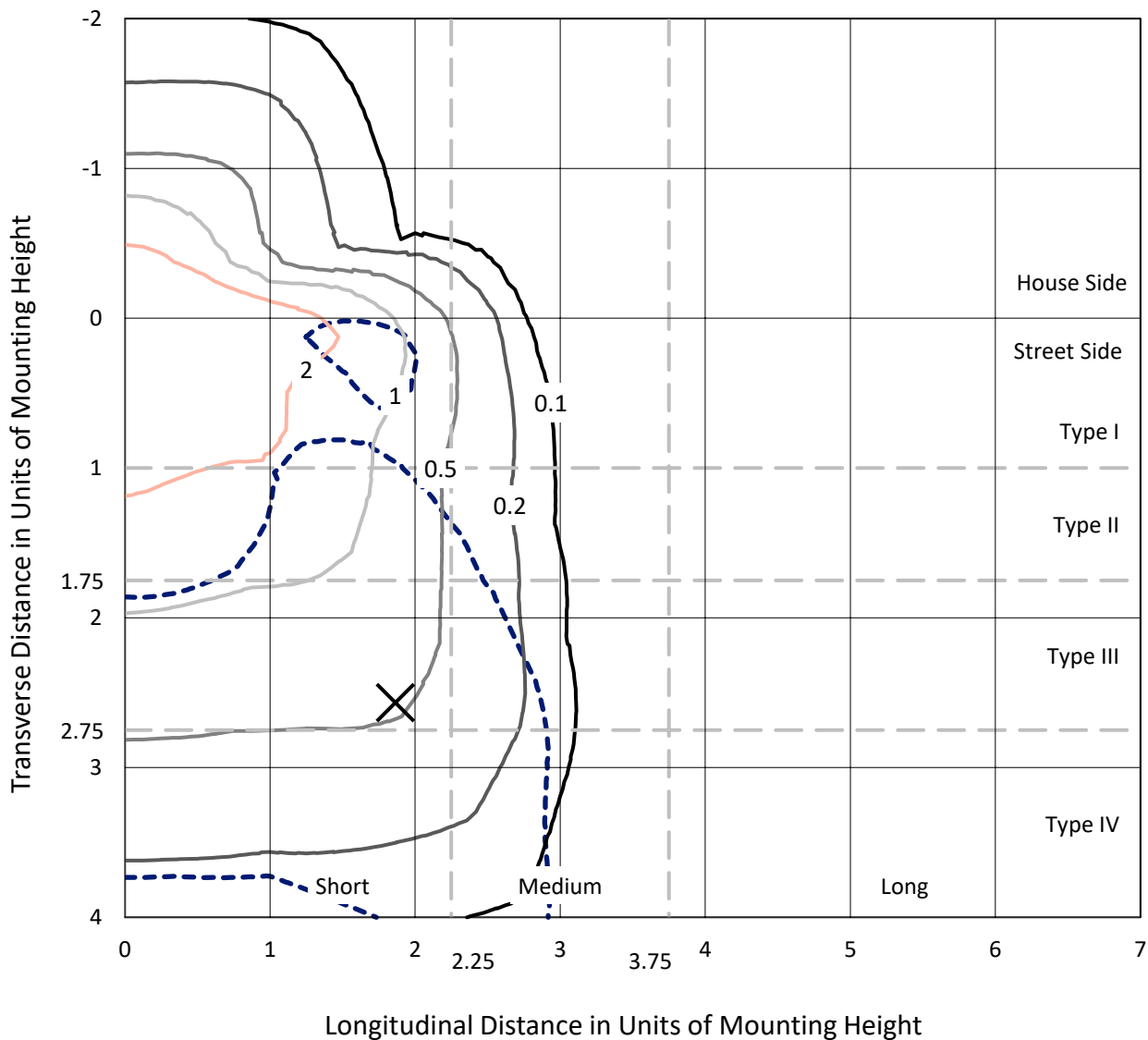
Lumens per Lamp: N/A  
Luminaire Lumens: 10270 lumens  
Efficiency: N/A  
Efficacy: 125.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 82.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

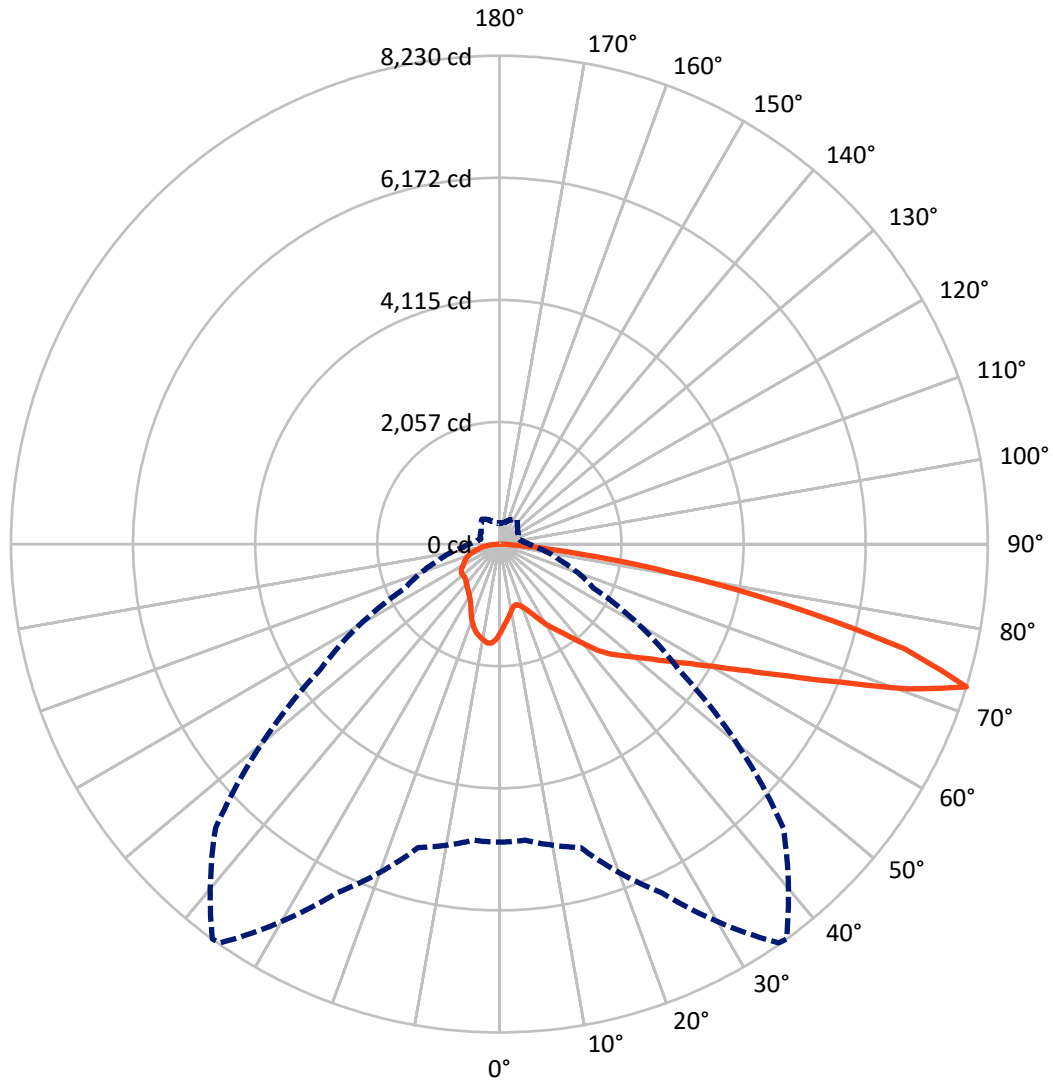
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4 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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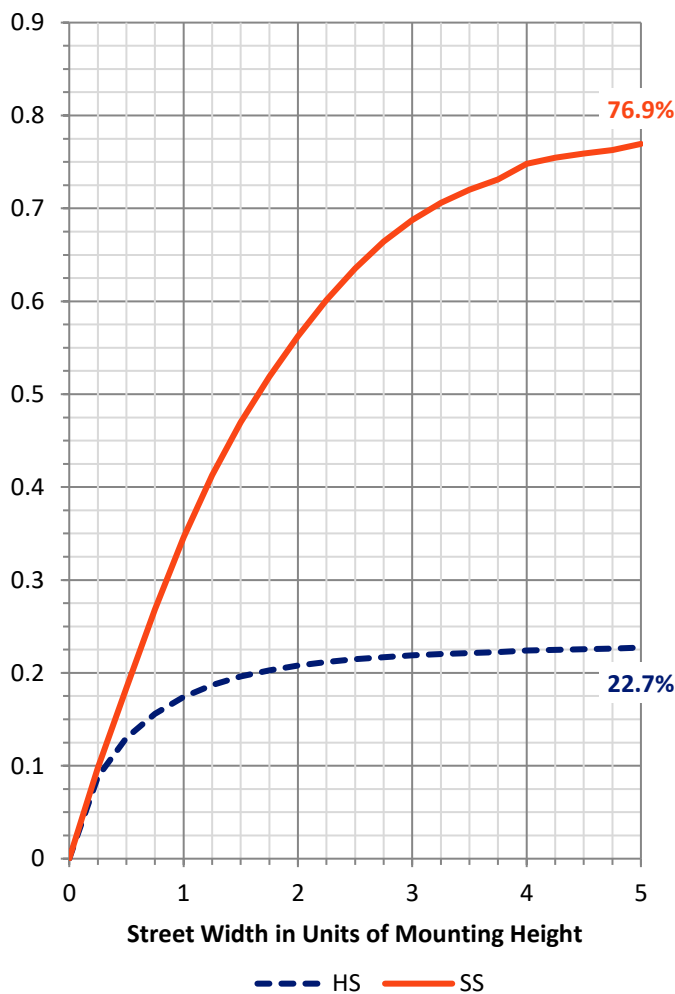
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2367.7	0.0	2367.7
	% Fixture	23.1	0.0	23.1
<b>Street Side</b>	Lumens	7902.3	0.0	7902.3
	% Fixture	76.9	0.0	76.9
<b>Total</b>	Lumens	10270.0	0.0	10270.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	140.5	1.4
10°-20°	396.4	3.9
20°-30°	656.5	6.4
30°-40°	983.1	9.6
40°-50°	1434.3	14.0
50°-60°	2041.4	19.9
60°-70°	2579.2	25.1
70°-80°	1837.9	17.9
80°-90°	200.6	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°	10270.0	100.0
0°-180°	10270.0	100.0

**Coefficient of Utilization**



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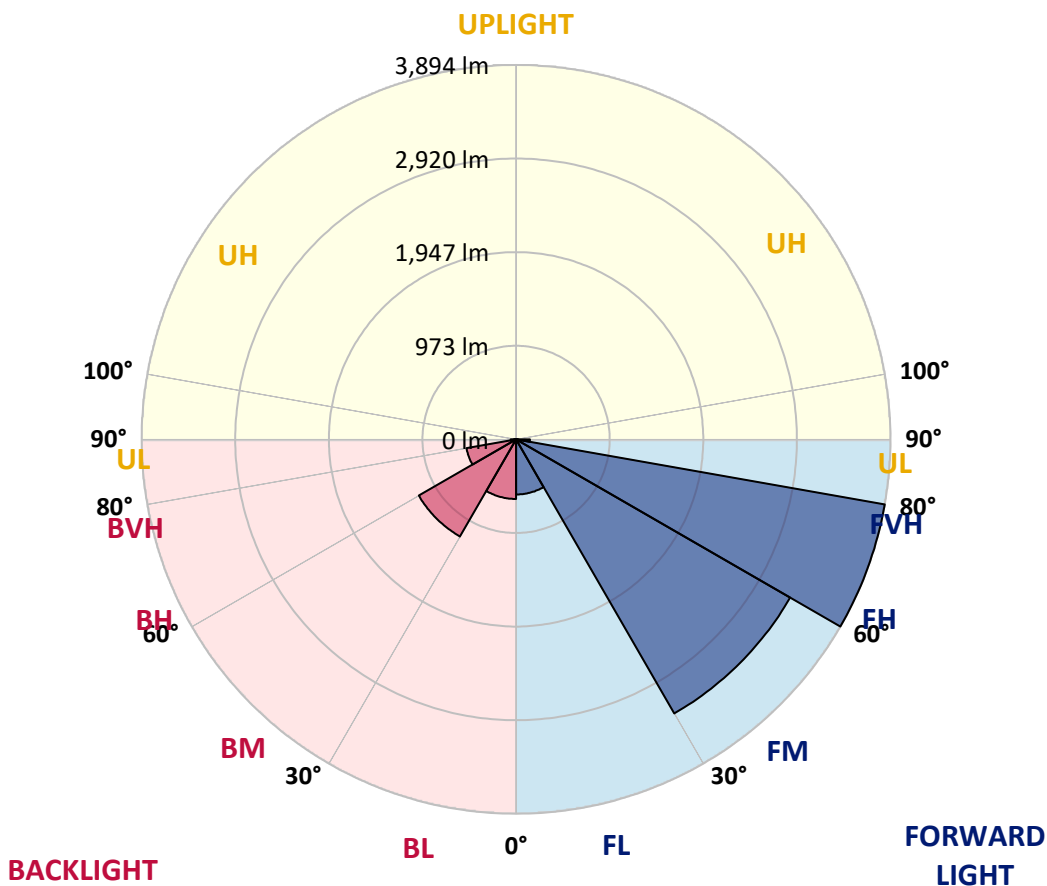
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	573.3	5.6			
FM (30°-60°)	3291.3	32.0			
FH (60°-80°)	3893.7	37.9			G2/5000
FVH (80°-90°)	144.0	1.4			G2/225
BL (0°-30°)	620.0	6.0	B2/1000		
BM (30°-60°)	1167.6	11.4	B2/2500		
BH (60°-80°)	523.4	5.1	B2/1000		G2/1000
BVH (80°-90°)	56.6	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°	1503.1	1503.1	1503.1	1503.1	1503.1	1503.1	1503.1	1503.1	1503.1	1503.1	1503.1
2.5°	1371.2	1368.9	1364.3	1378.1	1391.8	1390.3	1409.3	1427.6	1447.4	1468.0	1495.4
5°	1261.4	1259.9	1256.1	1276.7	1297.3	1296.5	1327.8	1357.5	1397.9	1442.1	1497.0
7.5°	1151.7	1147.9	1153.2	1179.1	1208.1	1211.1	1253.8	1302.6	1361.3	1427.6	1505.3
10°	1054.9	1054.1	1056.4	1085.4	1128.8	1131.9	1186.7	1254.6	1332.3	1420.7	1524.4
12.5°	1029.7	1028.2	1022.1	1036.6	1069.4	1073.9	1134.2	1217.2	1312.5	1424.6	1550.3
15°	1070.9	1067.1	1045.7	1038.9	1054.9	1058.7	1109.8	1195.1	1301.1	1431.4	1583.1
17.5°	1141.8	1139.5	1099.1	1070.9	1081.6	1084.6	1122.7	1191.3	1298.0	1445.1	1623.5
20°	1245.4	1235.5	1172.3	1129.6	1129.6	1134.2	1157.0	1208.1	1301.8	1461.9	1669.2
22.5°	1382.6	1362.8	1273.6	1215.7	1200.5	1206.6	1216.5	1250.0	1317.8	1490.1	1726.4
25°	1536.6	1518.3	1412.4	1330.8	1309.5	1311.7	1303.4	1309.5	1352.9	1529.0	1797.3
27.5°	1700.5	1688.3	1575.5	1471.8	1438.3	1438.3	1408.5	1394.1	1401.7	1573.2	1876.5
30°	1846.8	1830.0	1734.8	1621.2	1577.0	1577.0	1520.6	1489.3	1471.0	1627.3	1982.5
32.5°	1923.8	1913.9	1850.6	1763.7	1709.6	1701.2	1652.5	1615.9	1573.2	1707.3	2125.8
35°	2024.4	2022.1	1984.0	1916.2	1847.6	1835.4	1801.8	1772.9	1698.9	1807.2	2316.3
37.5°	2150.9	2147.1	2141.0	2100.6	2018.3	2016.0	1986.3	1951.2	1855.2	1951.2	2547.3
40°	2292.7	2285.8	2278.2	2277.5	2227.9	2219.5	2217.2	2177.6	2043.5	2125.0	2788.1
42.5°	2487.8	2464.2	2392.5	2424.6	2461.1	2453.5	2482.5	2423.0	2278.2	2331.6	3016.0
45°	2727.9	2670.0	2528.2	2537.4	2629.6	2644.8	2745.4	2731.0	2536.6	2570.1	3256.1
47.5°	2872.0	2821.7	2689.8	2682.2	2797.3	2816.3	3035.1	3062.5	2814.8	2857.5	3552.6
50°	2990.1	2955.1	2846.8	2857.5	2979.4	2998.5	3322.4	3381.1	3077.0	3151.7	3897.1
52.5°	3132.6	3082.3	2998.5	3048.8	3198.2	3221.1	3641.8	3705.1	3313.3	3474.9	4253.8
55°	3212.7	3192.1	3193.6	3270.6	3458.1	3489.4	3976.4	3965.7	3529.8	3751.6	4522.1
57.5°	3397.1	3389.5	3459.6	3488.6	3761.5	3801.9	4311.0	4219.5	3726.4	3965.7	4651.0
60°	3722.6	3703.5	3764.5	3808.7	4136.5	4193.6	4684.5	4468.0	3859.8	4125.0	4607.5
62.5°	4179.9	4156.3	4158.6	4228.7	4638.8	4699.0	5099.9	4675.3	3900.9	4149.4	4332.4
65°	4748.5	4714.2	4675.3	4770.6	5305.7	5356.0	5551.9	4826.3	3802.6	3914.7	3757.7
67.5°	5348.4	5320.2	5274.4	5474.1	6169.3	6199.7	6058.7	4813.3	3490.9	3286.6	2635.7
70°	5383.4	5390.3	5606.8	6329.3	7296.6	7304.2	6538.2	4552.6	2827.0	2130.4	1313.3
72.5°	5022.1	5010.7	5292.7	6485.6	8203.6	8229.5	6764.5	3688.3	1747.0	1062.5	615.9
75°	4079.3	4099.1	4395.6	5674.6	7031.3	7054.2	5514.5	2174.6	830.0	519.8	394.1
77.5°	1756.1	1866.6	2451.2	3997.7	5035.9	4965.0	2842.2	881.1	442.8	370.4	301.8
80°	506.9	550.3	873.5	1900.9	3017.6	2964.2	1125.0	330.0	308.7	278.2	216.5
82.5°	163.9	181.4	320.1	756.9	1352.1	1350.6	426.8	195.1	202.0	189.0	139.5
85°	45.7	52.6	98.3	229.4	418.4	410.1	123.5	92.2	107.5	109.0	69.4
87.5°	0.0	0.0	0.8	1.5	1.5	1.5	3.0	13.7	31.3	39.6	28.2
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°	1503.1	1503.1	1503.1	1503.1	1503.1	1503.1	1503.1	1503.1	1503.1	1503.1	1503.1
2.5°	1512.2	1509.9	1541.2	1565.6	1588.4	1603.7	1608.2	1611.3	1617.4	1620.4	1617.4
5°	1522.9	1534.3	1586.1	1624.3	1654.7	1673.0	1673.8	1672.3	1676.8	1673.0	1670.7
7.5°	1545.7	1567.8	1633.4	1673.8	1693.6	1694.4	1676.1	1654.7	1644.1	1634.9	1631.9
10°	1576.2	1609.0	1680.7	1707.3	1701.2	1673.0	1632.6	1599.1	1580.0	1566.3	1563.3
12.5°	1618.2	1654.7	1722.6	1721.8	1683.7	1633.4	1586.1	1545.7	1518.3	1502.3	1497.0
15°	1657.8	1704.3	1753.1	1717.2	1657.0	1596.0	1535.1	1481.0	1444.4	1419.2	1414.6
17.5°	1706.6	1756.1	1775.2	1702.8	1623.5	1545.0	1463.4	1392.5	1343.0	1313.3	1311.0
20°	1763.0	1807.2	1785.8	1677.6	1580.0	1477.1	1366.6	1287.4	1234.0	1205.0	1207.3
22.5°	1828.5	1860.5	1788.9	1643.3	1519.8	1381.1	1257.6	1181.4	1145.6	1130.3	1131.1
25°	1898.6	1919.2	1783.6	1596.8	1427.6	1263.7	1145.6	1110.5	1107.5	1103.7	1105.2
27.5°	1981.7	1977.1	1767.5	1531.3	1303.4	1127.3	1067.1	1076.2	1088.4	1086.9	1088.4
30°	2093.0	2049.6	1747.0	1440.6	1155.5	1013.0	1020.6	1046.5	1062.5	1064.0	1068.6
32.5°	2220.3	2129.6	1714.2	1317.1	1014.5	948.9	977.1	1008.4	1027.4	1031.3	1037.4
35°	2372.0	2221.1	1656.3	1163.1	913.1	910.8	936.7	958.1	978.7	980.2	980.2
37.5°	2546.5	2312.5	1564.0	993.1	850.6	878.1	902.4	907.0	912.4	907.8	910.1
40°	2706.6	2400.9	1432.9	838.4	799.5	849.1	869.7	854.4	837.7	826.2	828.5
42.5°	2840.7	2461.1	1259.2	730.2	747.7	823.2	839.2	807.9	775.2	753.8	756.9
45°	2991.6	2516.8	1054.9	657.0	703.5	804.9	815.6	775.2	733.2	701.2	696.7
47.5°	3199.7	2630.4	873.5	605.9	672.3	795.0	812.5	757.6	702.7	654.7	649.4
50°	3456.6	2791.2	721.8	572.4	657.8	789.6	811.7	738.6	673.0	616.6	612.8
52.5°	3737.1	2948.2	609.8	546.5	643.3	773.6	807.9	717.2	641.8	580.8	576.2
55°	3923.8	3009.9	534.3	522.1	619.7	748.5	792.7	696.7	594.5	538.9	532.0
57.5°	3978.7	2930.7	481.7	500.0	589.2	713.4	763.7	653.2	565.6	521.3	516.0
60°	3884.2	2731.0	448.9	481.7	555.6	668.5	713.4	628.1	542.7	503.1	499.2
62.5°	3617.4	2423.0	423.8	462.7	521.3	621.2	681.4	597.6	517.5	486.3	480.9
65°	3080.8	1987.1	403.2	442.8	488.6	576.2	646.3	567.1	490.1	466.5	460.4
67.5°	2154.7	1395.6	381.1	419.2	455.8	532.8	609.8	538.9	461.9	444.4	438.3
70°	1053.4	740.1	354.4	391.8	420.7	488.6	573.2	504.6	424.5	414.6	406.3
72.5°	501.5	413.9	323.2	354.4	372.7	429.9	512.2	455.0	380.3	359.0	344.5
75°	336.1	294.2	282.0	310.2	314.8	360.5	439.0	392.5	335.4	311.0	298.8
77.5°	254.6	224.8	237.0	262.2	253.1	296.5	361.3	349.9	302.6	280.5	274.4
80°	179.1	163.9	188.3	203.5	196.6	252.3	325.5	299.5	249.2	224.8	220.3
82.5°	112.8	109.8	138.7	141.0	143.3	199.7	267.5	235.5	193.6	159.3	147.9
85°	56.4	62.5	83.1	83.1	82.3	102.9	152.4	132.6	104.4	83.1	80.8
87.5°	19.1	26.7	35.8	29.0	22.1	17.5	19.8	24.4	25.9	25.2	25.2
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)