

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: P632604

Luminaire Tested: GWS-SA2D-722-U-T2-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P632604  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-21)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA2D-722-U-T2-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSALLED GLARE SHIELD, WH  
Light Source: (32) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

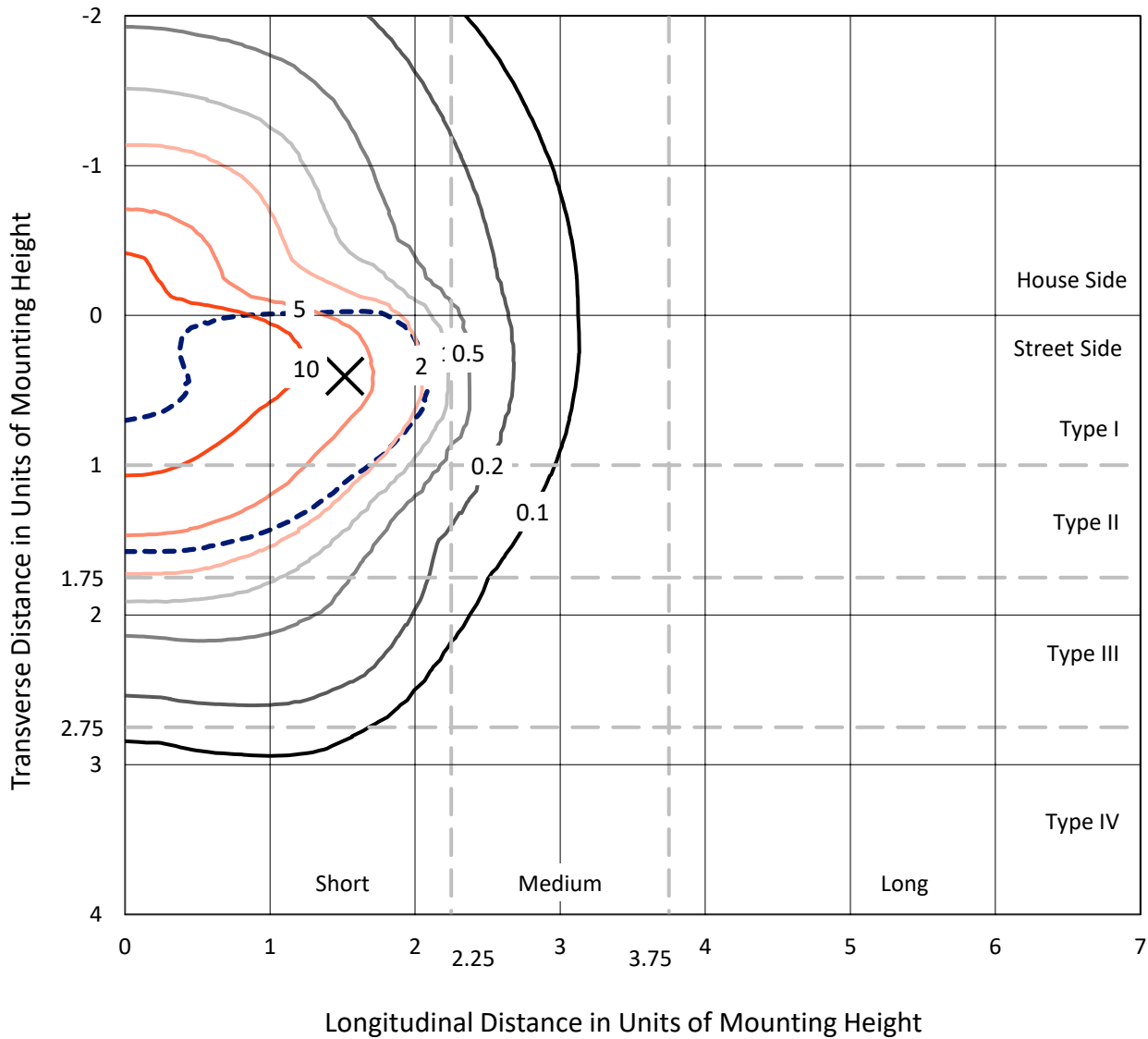
Lumens per Lamp: N/A  
Luminaire Lumens: 7170.5 lumens  
Efficiency: N/A  
Efficacy: 87.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1  
  
Input Watts (W): 82.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

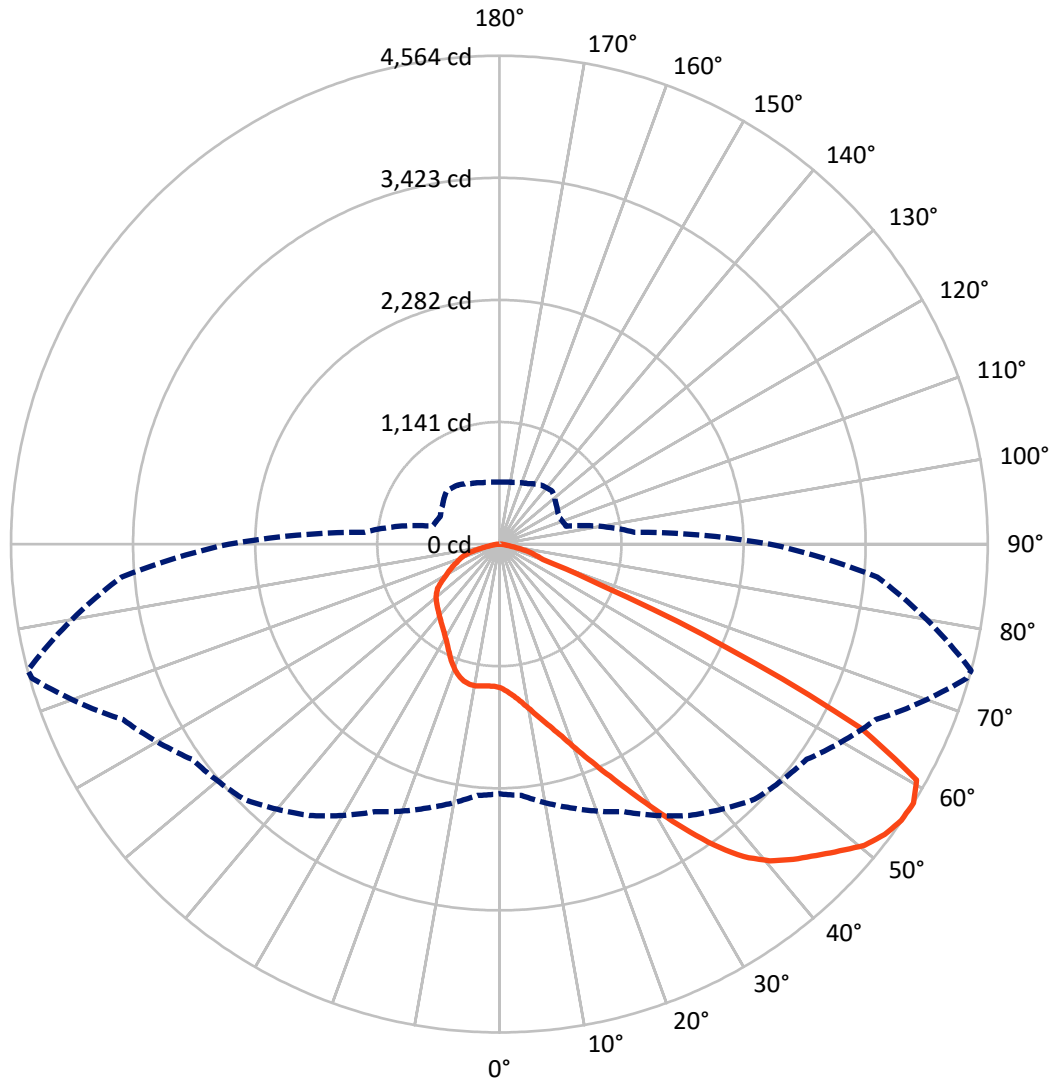
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 19 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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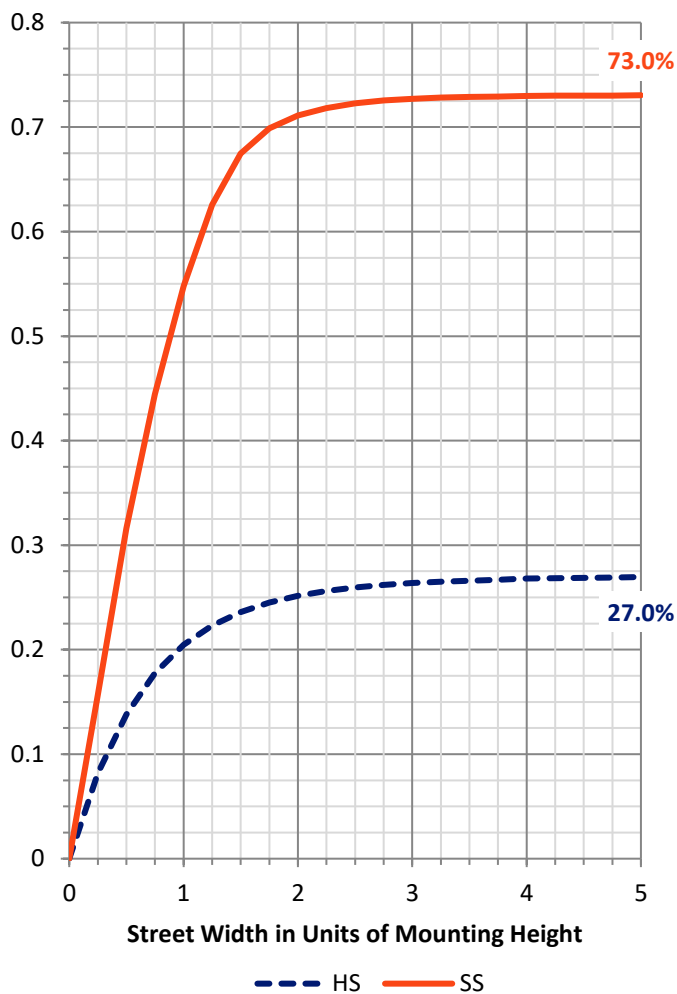
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1939.8	0.0	1939.8
	% Fixture	27.1	0.0	27.1
<b>Street Side</b>	Lumens	5230.7	0.0	5230.7
	% Fixture	72.9	0.0	72.9
<b>Total</b>	Lumens	7170.5	0.0	7170.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	134.4	1.9
10°-20°	427.8	6.0
20°-30°	758.8	10.6
30°-40°	1161.5	16.2
40°-50°	1617.3	22.6
50°-60°	1853.1	25.8
60°-70°	952.2	13.3
70°-80°	239.7	3.3
80°-90°	25.6	0.4
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°	7170.5	100.0
0°-180°	7170.5	100.0

**Coefficient of Utilization**



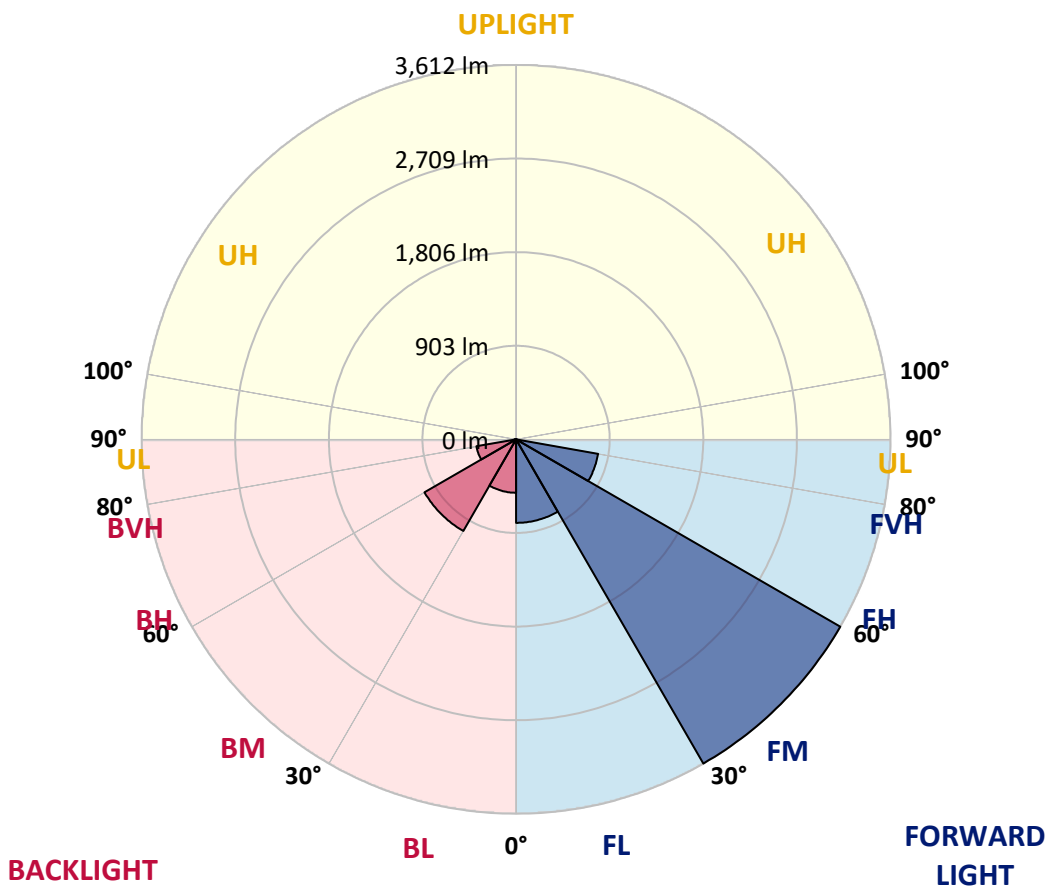
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	805.7	11.2			
FM (30°-60°)	3611.9	50.4			
FH (60°-80°)	803.7	11.2			G1/1800
FVH (80°-90°)	9.5	0.1			G0/10
BL (0°-30°)	515.3	7.2	B2/1000		
BM (30°-60°)	1020.1	14.2	B2/2500		
BH (60°-80°)	388.2	5.4	B1/500		G1/500
BVH (80°-90°)	16.1	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1342.9	1342.9	1342.9	1342.9	1342.9	1342.9	1342.9	1342.9	1342.9	1342.9	1342.9
2.5°	1442.7	1446.4	1442.7	1448.9	1436.6	1431.0	1417.5	1397.1	1381.1	1378.6	1360.7
5°	1555.0	1563.0	1558.0	1555.6	1538.9	1526.6	1506.3	1465.6	1432.3	1427.3	1392.2
7.5°	1627.1	1632.6	1632.6	1634.5	1628.3	1614.1	1592.6	1544.5	1497.6	1490.2	1437.2
10°	1651.1	1655.5	1663.5	1678.9	1691.2	1695.5	1681.4	1635.1	1577.8	1570.4	1496.4
12.5°	1656.7	1661.6	1674.0	1702.3	1736.2	1767.1	1769.5	1735.6	1671.5	1663.5	1564.8
15°	1667.2	1672.1	1688.8	1723.9	1773.8	1833.0	1869.4	1846.0	1775.1	1766.4	1642.5
17.5°	1665.9	1671.5	1696.2	1743.0	1810.2	1895.9	1966.2	1976.1	1902.7	1887.9	1730.7
20°	1662.9	1667.8	1694.3	1751.6	1834.9	1952.6	2079.6	2130.8	2051.9	2038.3	1833.6
22.5°	1687.5	1693.1	1713.4	1760.9	1847.8	1996.4	2184.5	2307.8	2228.9	2209.7	1952.0
25°	1743.0	1751.0	1763.4	1796.0	1871.3	2035.3	2291.7	2508.2	2427.4	2404.6	2080.9
27.5°	1828.7	1838.6	1855.8	1871.3	1923.7	2084.6	2398.4	2732.6	2651.8	2627.8	2217.1
30°	1933.5	1946.5	1968.7	1979.1	2014.9	2157.3	2514.3	2963.8	2916.9	2883.6	2370.7
32.5°	2078.4	2096.3	2117.3	2120.3	2141.9	2267.7	2629.0	3193.2	3192.5	3169.1	2545.1
35°	2267.1	2286.2	2290.5	2294.8	2305.3	2419.4	2767.7	3402.2	3482.9	3455.8	2735.0
37.5°	2473.0	2500.8	2507.5	2488.4	2503.2	2601.9	2923.7	3569.9	3735.7	3706.7	2918.8
40°	2693.1	2704.2	2722.7	2692.5	2711.0	2810.9	3076.6	3677.1	3924.4	3893.6	3063.7
42.5°	2851.0	2871.3	2899.1	2888.0	2898.4	2989.7	3183.9	3728.9	4058.8	4028.0	3167.9
45°	3022.4	3028.5	3046.4	3043.9	3050.1	3135.2	3261.0	3751.8	4179.0	4151.3	3256.7
47.5°	3171.6	3180.8	3192.5	3179.0	3165.4	3220.9	3323.9	3771.5	4317.8	4284.5	3349.8
50°	3315.2	3323.2	3337.4	3298.0	3247.4	3261.6	3354.7	3798.6	4447.8	4424.4	3423.1
52.5°	3341.7	3350.4	3417.0	3425.0	3360.2	3310.3	3408.9	3858.4	4524.3	4509.5	3449.6
55°	3008.2	3023.6	3156.2	3308.4	3468.1	3452.1	3495.9	3889.9	4554.5	4558.2	3497.1
57.5°	2334.9	2357.1	2550.7	2759.7	3095.7	3373.8	3507.0	3881.8	4544.0	4564.4	3545.8
60°	1531.5	1544.5	1773.8	2008.1	2356.5	2741.2	3138.9	3737.6	4450.9	4479.9	3533.5
62.5°	924.8	939.6	1124.0	1301.6	1506.9	1764.0	2129.0	3003.9	3730.8	3795.5	2830.0
65°	645.5	665.3	826.8	972.9	1043.8	990.8	1078.4	1677.7	2324.4	2351.6	1729.4
67.5°	468.0	481.5	614.1	788.0	866.3	699.8	533.3	743.0	1012.4	1022.3	713.4
70°	306.4	321.8	442.1	599.9	707.2	567.2	398.9	402.0	426.0	431.0	414.3
72.5°	168.3	177.6	273.1	398.3	418.0	339.1	311.4	334.2	350.8	350.8	355.1
75°	86.9	94.9	111.6	131.3	158.5	185.6	224.4	258.3	276.2	277.5	275.6
77.5°	44.4	47.5	59.8	64.7	70.9	82.6	107.3	137.5	153.5	159.7	158.5
80°	21.0	22.2	25.3	29.6	36.4	46.2	58.0	69.1	78.9	80.2	86.9
82.5°	11.1	12.3	13.6	16.0	19.7	24.7	33.9	40.7	46.9	48.1	53.6
85°	4.3	4.9	5.5	6.2	8.6	10.5	14.2	19.1	23.4	23.4	27.7
87.5°	0.0	0.0	0.0	0.0	0.6	1.2	2.5	3.1	4.3	4.3	7.4
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°	1342.9	1342.9	1342.9	1342.9	1342.9	1342.9	1342.9	1342.9	1342.9	1342.9	1342.9
2.5°	1356.4	1338.5	1330.5	1317.6	1307.1	1295.4	1286.1	1279.4	1275.0	1272.6	1270.1
5°	1378.6	1351.5	1329.9	1304.0	1286.1	1268.9	1254.7	1244.8	1239.9	1236.2	1233.7
7.5°	1413.2	1376.8	1336.1	1296.0	1264.6	1236.8	1218.9	1208.5	1201.7	1199.2	1197.4
10°	1460.6	1410.1	1342.9	1279.4	1232.5	1202.3	1190.0	1185.0	1185.6	1184.4	1183.8
12.5°	1514.3	1445.2	1341.0	1249.8	1198.0	1180.1	1180.7	1188.7	1198.0	1200.4	1201.1
15°	1572.2	1479.7	1323.1	1211.5	1170.8	1172.7	1188.7	1207.8	1225.1	1231.9	1233.1
17.5°	1635.1	1508.7	1290.5	1169.6	1148.6	1168.4	1198.0	1229.4	1254.7	1265.8	1268.9
20°	1705.4	1533.4	1244.2	1128.3	1127.7	1160.4	1203.5	1244.8	1276.9	1291.7	1294.2
22.5°	1780.0	1548.8	1187.5	1090.1	1106.1	1149.9	1199.2	1242.4	1276.3	1291.1	1294.2
25°	1855.2	1553.7	1125.2	1054.9	1083.9	1133.2	1178.2	1212.8	1244.8	1257.8	1260.2
27.5°	1925.5	1539.5	1066.0	1024.7	1063.6	1108.6	1138.8	1157.3	1179.5	1189.3	1191.2
30°	1997.0	1511.2	1016.1	1000.7	1040.7	1074.7	1088.2	1089.5	1098.1	1098.1	1099.3
32.5°	2069.2	1469.3	972.3	977.2	1012.4	1034.6	1036.4	1022.3	1011.8	994.5	993.9
35°	2152.4	1426.7	936.6	950.7	979.1	992.7	987.1	960.0	934.7	906.3	905.1
37.5°	2229.5	1382.9	906.3	923.6	941.5	951.3	938.4	905.7	884.8	855.8	851.5
40°	2293.0	1343.5	877.4	895.2	903.9	912.5	891.5	865.0	868.1	852.1	851.5
42.5°	2330.0	1305.3	850.2	863.8	869.3	875.5	857.0	837.3	853.9	841.6	842.2
45°	2357.1	1272.0	825.6	830.5	844.1	853.3	836.1	813.9	817.6	770.1	759.0
47.5°	2387.9	1253.5	802.1	797.2	821.3	837.3	810.8	778.7	756.5	709.7	705.3
50°	2420.6	1246.7	777.5	763.9	792.9	808.3	777.5	737.4	708.4	683.1	680.7
52.5°	2431.7	1246.1	746.7	723.8	752.8	774.4	748.5	707.8	673.3	648.6	647.4
55°	2475.5	1263.9	707.2	669.0	696.1	740.5	721.4	662.8	635.1	624.0	622.7
57.5°	2526.7	1267.0	644.9	609.2	646.8	699.2	675.1	624.6	594.4	580.8	579.6
60°	2505.7	1191.2	578.3	563.5	604.8	660.3	638.1	594.4	559.2	546.3	545.0
62.5°	1909.5	841.0	529.6	524.1	559.8	604.2	599.9	554.3	521.0	511.7	510.5
65°	1148.6	590.7	482.8	482.1	507.4	550.0	555.5	518.5	483.4	470.4	470.4
67.5°	567.8	451.9	429.7	426.7	442.7	472.9	496.3	466.1	436.5	424.2	422.3
70°	401.4	398.3	390.9	382.3	385.3	397.7	407.5	382.3	350.8	338.5	336.0
72.5°	347.1	347.7	342.8	336.0	333.6	324.9	316.3	297.8	278.7	265.7	267.0
75°	269.4	270.7	273.8	271.3	264.5	255.3	246.0	222.6	207.2	194.8	192.4
77.5°	157.2	163.4	173.3	170.8	172.0	159.1	155.4	132.6	118.4	109.7	107.9
80°	88.8	92.5	96.8	99.9	96.2	90.6	82.6	70.3	66.0	59.8	58.6
82.5°	53.6	57.3	59.2	61.7	60.4	53.0	46.9	38.8	35.1	32.1	31.4
85°	27.1	29.6	31.4	32.7	29.0	24.0	21.6	17.3	14.8	12.9	12.9
87.5°	6.8	7.4	8.6	7.4	6.8	3.1	2.5	0.6	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)