

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: P632274

Luminaire Tested: GWS-SA2C-735-U-T2-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P632274  
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-SA2C-735-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) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

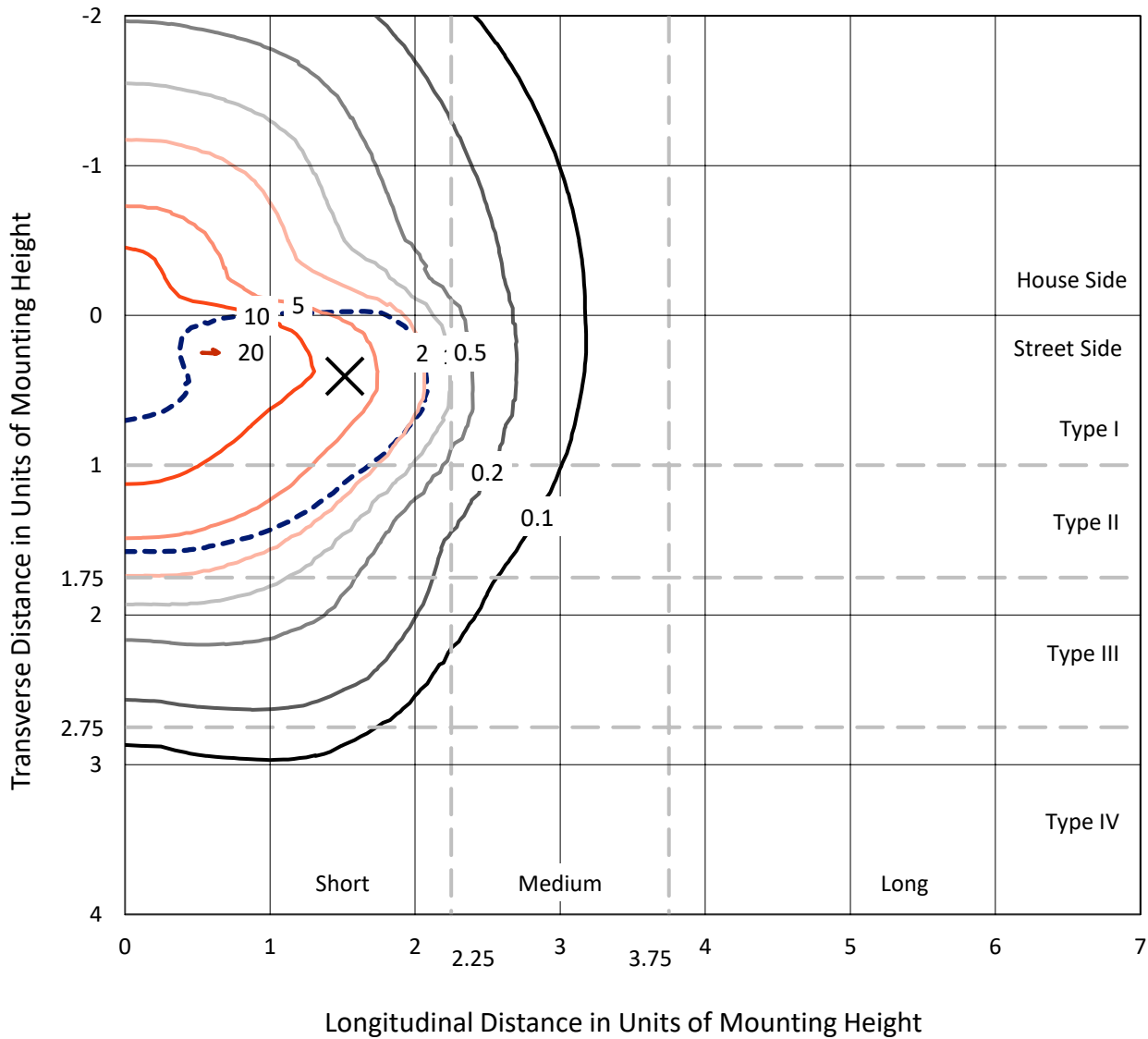
Lumens per Lamp: N/A  
Luminaire Lumens: 7610.6 lumens  
Efficiency: N/A  
Efficacy: 120.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1  
  
Input Watts (W): 63.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

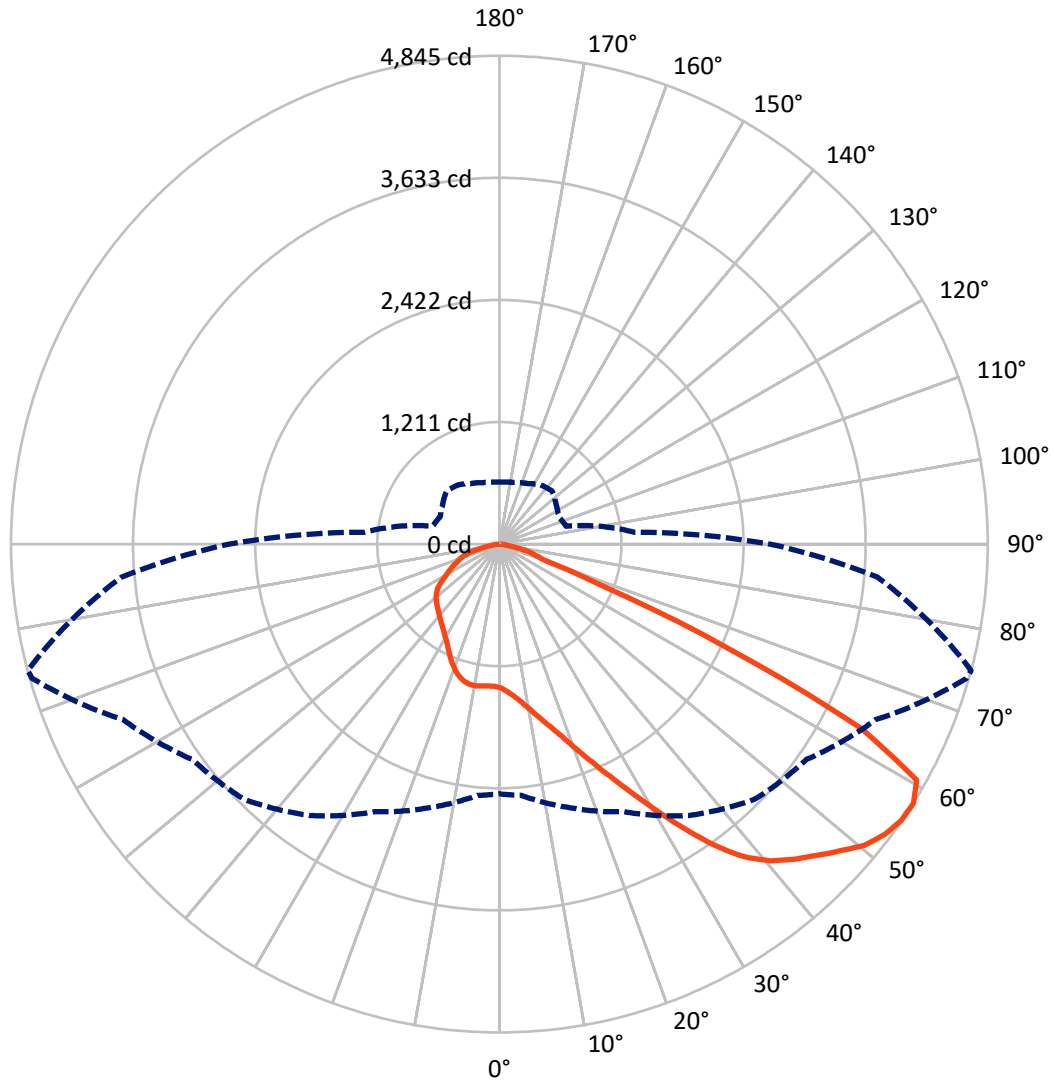
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 20.2 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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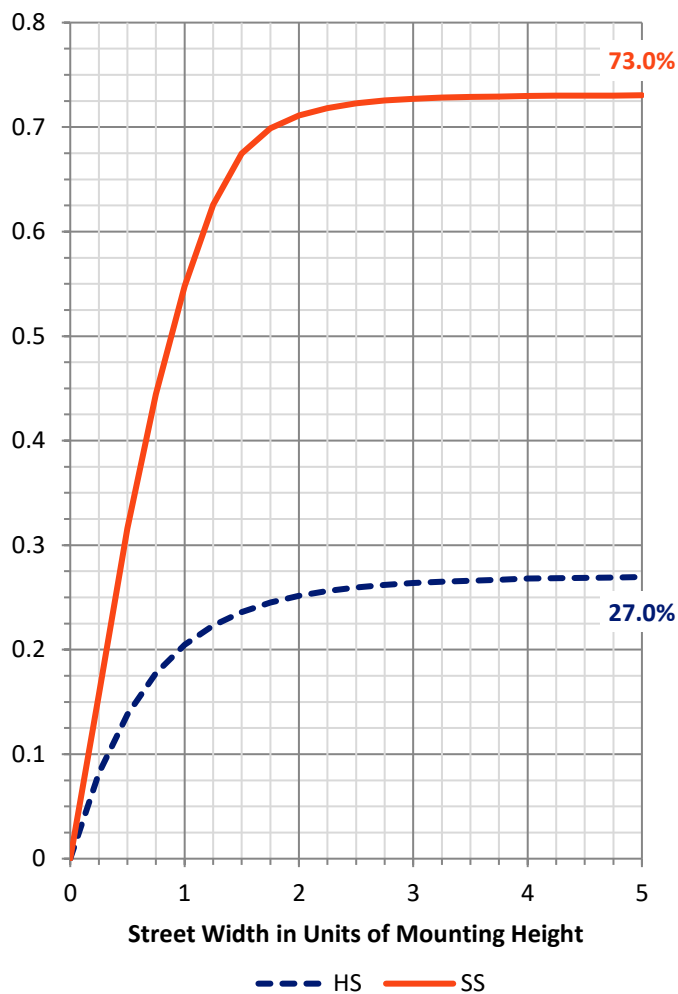
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2058.8	0.0	2058.8
	% Fixture	27.1	0.0	27.1
<b>Street Side</b>	Lumens	5551.8	0.0	5551.8
	% Fixture	72.9	0.0	72.9
<b>Total</b>	Lumens	7610.6	0.0	7610.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	142.6	1.9
10°-20°	454.1	6.0
20°-30°	805.3	10.6
30°-40°	1232.8	16.2
40°-50°	1716.6	22.6
50°-60°	1966.9	25.8
60°-70°	1010.6	13.3
70°-80°	254.4	3.3
80°-90°	27.2	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°	7610.6	100.0
0°-180°	7610.6	100.0

**Coefficient of Utilization**



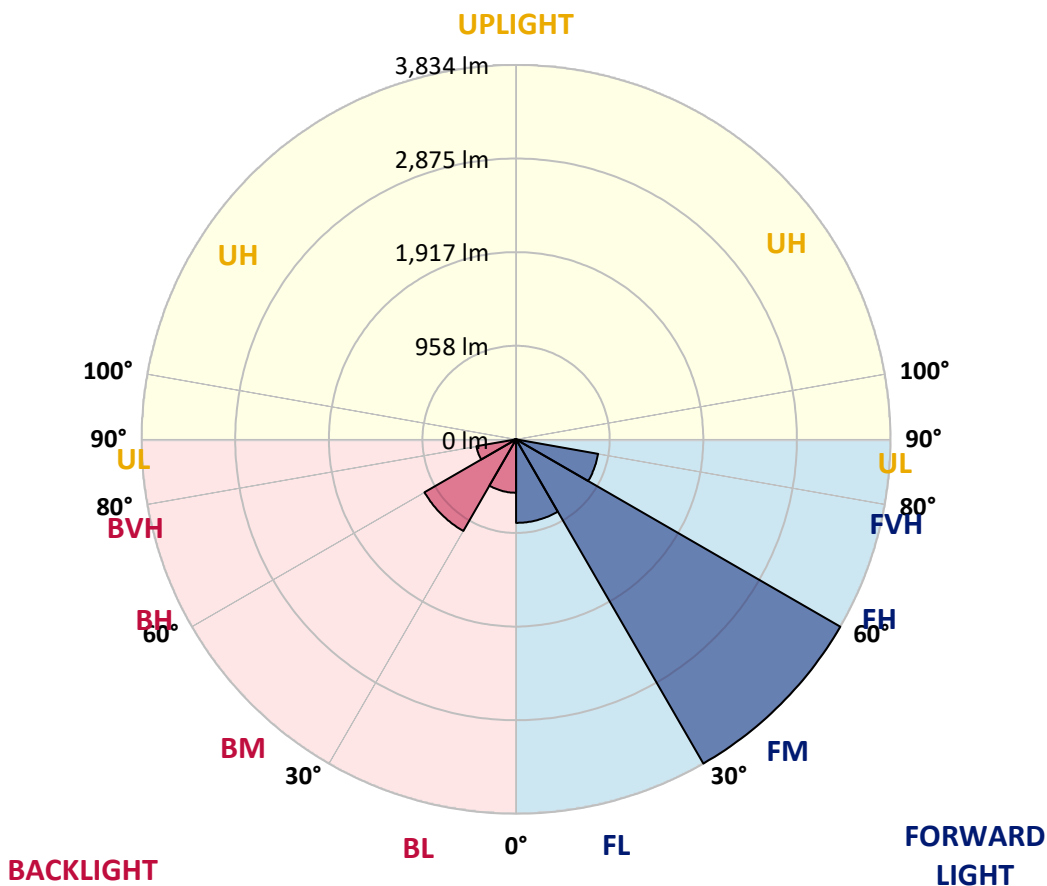
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	855.1	11.2			
FM (30°-60°)	3833.6	50.4			
FH (60°-80°)	853.1	11.2			G1/1800
FVH (80°-90°)	10.1	0.1			G1/100
BL (0°-30°)	547.0	7.2	B2/1000		
BM (30°-60°)	1082.8	14.2	B2/2500		
BH (60°-80°)	412.0	5.4	B1/500		G1/500
BVH (80°-90°)	17.1	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°	1425.3	1425.3	1425.3	1425.3	1425.3	1425.3	1425.3	1425.3	1425.3	1425.3	1425.3
2.5°	1531.3	1535.2	1531.3	1537.8	1524.8	1518.9	1504.5	1482.9	1465.9	1463.2	1444.3
5°	1650.4	1658.9	1653.7	1651.1	1633.4	1620.3	1598.7	1555.5	1520.2	1514.9	1477.6
7.5°	1727.0	1732.9	1732.9	1734.8	1728.3	1713.2	1690.3	1639.3	1589.5	1581.7	1525.4
10°	1752.5	1757.1	1765.6	1781.9	1795.0	1799.6	1784.5	1735.5	1674.6	1666.8	1588.2
12.5°	1758.4	1763.6	1776.7	1806.8	1842.8	1875.5	1878.1	1842.1	1774.1	1765.6	1660.9
15°	1769.5	1774.7	1792.4	1829.7	1882.7	1945.5	1984.1	1959.3	1884.0	1874.9	1743.3
17.5°	1768.2	1774.1	1800.3	1850.0	1921.3	2012.3	2086.9	2097.4	2019.5	2003.8	1836.9
20°	1764.9	1770.2	1798.3	1859.1	1947.5	2072.5	2207.3	2261.6	2177.8	2163.4	1946.2
22.5°	1791.1	1797.0	1818.6	1869.0	1961.2	2118.9	2318.5	2449.4	2365.7	2345.4	2071.8
25°	1850.0	1858.5	1871.6	1906.3	1986.1	2160.2	2432.4	2662.1	2576.4	2552.2	2208.6
27.5°	1940.9	1951.4	1969.7	1986.1	2041.7	2212.5	2545.6	2900.3	2814.6	2789.1	2353.2
30°	2052.2	2065.9	2089.5	2100.6	2138.6	2289.7	2668.6	3145.7	3096.0	3060.6	2516.2
32.5°	2206.0	2225.0	2247.2	2250.5	2273.4	2406.9	2790.4	3389.1	3388.5	3363.6	2701.4
35°	2406.2	2426.5	2431.1	2435.7	2446.8	2567.9	2937.6	3611.0	3696.7	3667.9	2902.9
37.5°	2624.8	2654.2	2661.4	2641.2	2656.9	2761.6	3103.2	3789.0	3965.0	3934.3	3097.9
40°	2858.4	2870.2	2889.8	2857.8	2877.4	2983.4	3265.5	3902.8	4165.3	4132.5	3251.7
42.5°	3025.9	3047.5	3077.0	3065.2	3076.3	3173.2	3379.3	3957.8	4307.9	4275.2	3362.3
45°	3207.9	3214.4	3233.4	3230.8	3237.3	3327.6	3461.1	3982.0	4435.5	4406.1	3456.5
47.5°	3366.2	3376.0	3388.5	3374.1	3359.7	3418.6	3527.9	4003.0	4582.8	4547.4	3555.4
50°	3518.7	3527.2	3542.3	3500.4	3446.7	3461.8	3560.6	4031.8	4720.8	4696.0	3633.2
52.5°	3546.8	3556.0	3626.7	3635.2	3566.5	3513.5	3618.2	4095.2	4802.0	4786.3	3661.4
55°	3192.8	3209.2	3349.9	3511.5	3681.0	3664.0	3710.4	4128.6	4834.1	4838.0	3711.8
57.5°	2478.2	2501.8	2707.3	2929.1	3285.7	3580.9	3722.2	4120.1	4822.9	4844.5	3763.5
60°	1625.5	1639.3	1882.7	2131.4	2501.1	2909.5	3331.5	3967.0	4724.1	4754.9	3750.4
62.5°	981.6	997.3	1193.0	1381.4	1599.4	1872.2	2259.6	3188.2	3959.8	4028.5	3003.7
65°	685.2	706.1	877.6	1032.6	1107.9	1051.6	1144.5	1780.6	2467.1	2495.9	1835.6
67.5°	496.7	511.1	651.8	836.3	919.4	742.7	566.1	788.6	1074.5	1085.0	757.1
70°	325.2	341.6	469.2	636.7	750.6	602.0	423.4	426.7	452.2	457.4	439.8
72.5°	178.7	188.5	289.9	422.7	443.7	359.9	330.5	354.7	372.4	372.4	376.9
75°	92.3	100.8	118.4	139.4	168.2	197.0	238.2	274.2	293.2	294.5	292.5
77.5°	47.1	50.4	63.5	68.7	75.3	87.7	113.9	145.9	162.9	169.5	168.2
80°	22.2	23.6	26.8	31.4	38.6	49.1	61.5	73.3	83.8	85.1	92.3
82.5°	11.8	13.1	14.4	17.0	20.9	26.2	36.0	43.2	49.7	51.0	56.9
85°	4.6	5.2	5.9	6.5	9.2	11.1	15.1	20.3	24.9	24.9	29.4
87.5°	0.0	0.0	0.0	0.0	0.7	1.3	2.6	3.3	4.6	4.6	7.9
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°	1425.3	1425.3	1425.3	1425.3	1425.3	1425.3	1425.3	1425.3	1425.3	1425.3	1425.3
2.5°	1439.7	1420.7	1412.2	1398.5	1387.3	1374.9	1365.1	1357.9	1353.3	1350.7	1348.1
5°	1463.2	1434.4	1411.5	1384.1	1365.1	1346.8	1331.7	1321.2	1316.0	1312.1	1309.5
7.5°	1499.9	1461.3	1418.1	1375.5	1342.2	1312.7	1293.7	1282.6	1275.4	1272.8	1270.8
10°	1550.3	1496.6	1425.3	1357.9	1308.1	1276.1	1263.0	1257.8	1258.4	1257.1	1256.4
12.5°	1607.2	1533.9	1423.3	1326.5	1271.5	1252.5	1253.2	1261.7	1271.5	1274.1	1274.8
15°	1668.7	1570.6	1404.3	1285.9	1242.7	1244.7	1261.7	1282.0	1300.3	1307.5	1308.8
17.5°	1735.5	1601.3	1369.7	1241.4	1219.1	1240.1	1271.5	1304.9	1331.7	1343.5	1346.8
20°	1810.1	1627.5	1320.6	1197.6	1196.9	1231.6	1277.4	1321.2	1355.3	1371.0	1373.6
22.5°	1889.3	1643.9	1260.4	1157.0	1174.0	1220.5	1272.8	1318.6	1354.6	1370.3	1373.6
25°	1969.1	1649.1	1194.3	1119.7	1150.4	1202.8	1250.6	1287.2	1321.2	1335.0	1337.6
27.5°	2043.7	1634.0	1131.5	1087.6	1128.8	1176.6	1208.7	1228.3	1251.9	1262.3	1264.3
30°	2119.6	1603.9	1078.5	1062.1	1104.6	1140.6	1155.0	1156.3	1165.5	1165.5	1166.8
32.5°	2196.2	1559.4	1032.0	1037.2	1074.5	1098.1	1100.0	1085.0	1073.9	1055.5	1054.9
35°	2284.5	1514.3	994.0	1009.1	1039.2	1053.6	1047.7	1018.9	992.1	962.0	960.7
37.5°	2366.3	1467.8	962.0	980.3	999.3	1009.7	996.0	961.3	939.1	908.3	903.7
40°	2433.7	1425.9	931.2	950.2	959.4	968.5	946.3	918.1	921.4	904.4	903.7
42.5°	2473.0	1385.4	902.4	916.8	922.7	929.2	909.6	888.7	906.3	893.3	893.9
45°	2501.8	1350.0	876.2	881.5	895.9	905.7	887.4	863.8	867.7	817.3	805.6
47.5°	2534.5	1330.4	851.4	846.1	871.7	888.7	860.5	826.5	802.9	753.2	748.6
50°	2569.2	1323.2	825.2	810.8	841.6	857.9	825.2	782.7	751.9	725.1	722.5
52.5°	2581.0	1322.5	792.5	768.3	799.0	821.9	794.4	751.3	714.6	688.4	687.1
55°	2627.4	1341.5	750.6	710.0	738.8	785.9	765.6	703.5	674.0	662.3	660.9
57.5°	2681.7	1344.8	684.5	646.5	686.5	742.1	716.6	662.9	630.8	616.4	615.1
60°	2659.5	1264.3	613.8	598.1	642.0	700.9	677.3	630.8	593.5	579.8	578.5
62.5°	2026.7	892.6	562.1	556.2	594.2	641.3	636.7	588.3	553.0	543.2	541.8
65°	1219.1	626.9	512.4	511.7	538.6	583.7	589.6	550.4	513.0	499.3	499.3
67.5°	602.7	479.7	456.1	452.8	469.9	501.9	526.8	494.7	463.3	450.2	448.3
70°	426.0	422.7	414.9	405.7	409.0	422.1	432.6	405.7	372.4	359.3	356.6
72.5°	368.4	369.1	363.8	356.6	354.0	344.9	335.7	316.1	295.8	282.0	283.4
75°	286.0	287.3	290.6	287.9	280.7	270.9	261.1	236.2	219.9	206.8	204.2
77.5°	166.9	173.4	183.9	181.3	182.6	168.8	164.9	140.7	125.6	116.5	114.5
80°	94.2	98.2	102.7	106.0	102.1	96.2	87.7	74.6	70.0	63.5	62.2
82.5°	56.9	60.9	62.8	65.4	64.1	56.3	49.7	41.2	37.3	34.0	33.4
85°	28.8	31.4	33.4	34.7	30.8	25.5	22.9	18.3	15.7	13.7	13.7
87.5°	7.2	7.9	9.2	7.9	7.2	3.3	2.6	0.7	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)