

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: P632041

Luminaire Tested: GWS-SA2B-830-U-SL3-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P632041  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-31)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA2B-830-U-SL3-W  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS  
Light Source: (32) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

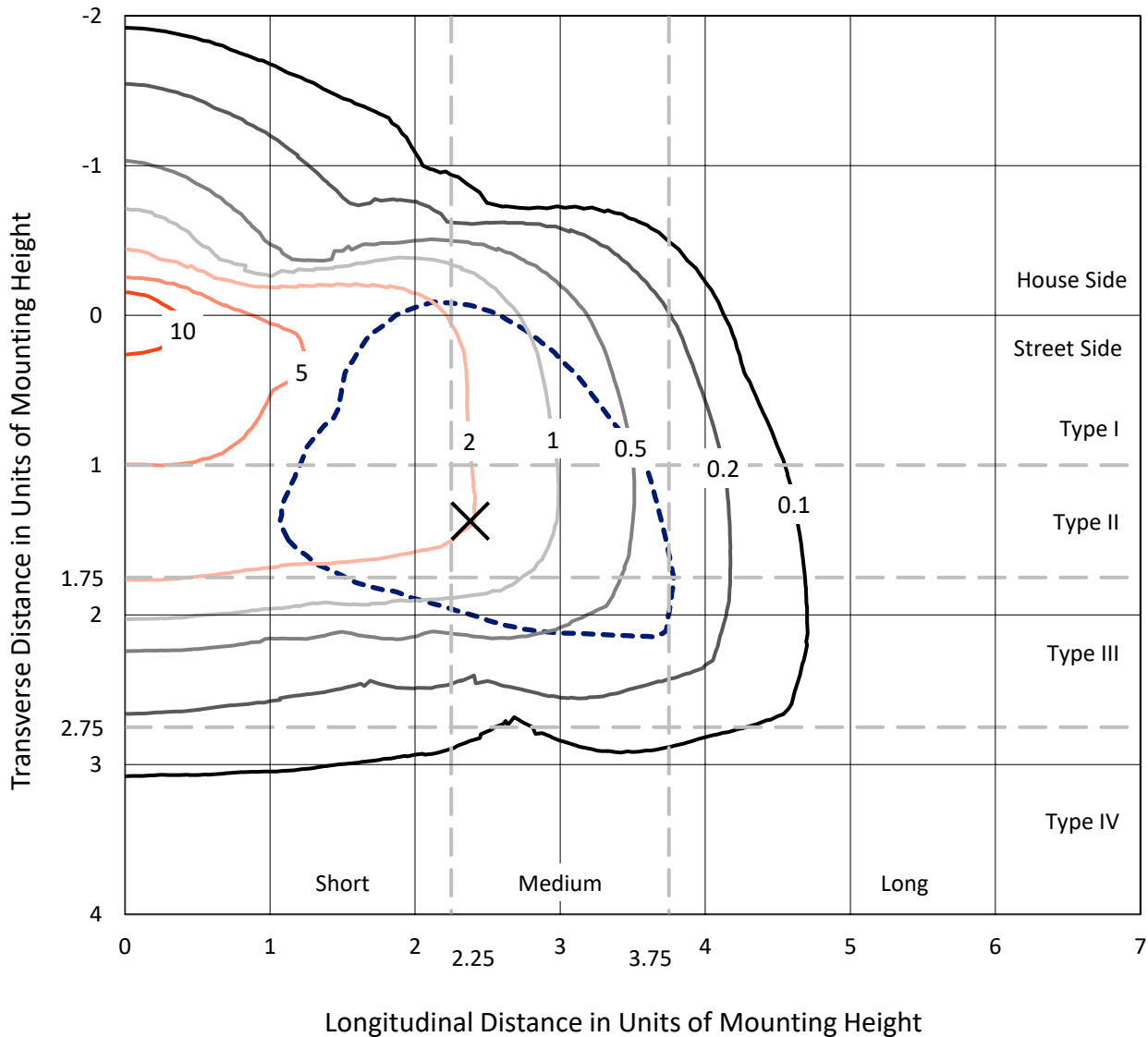
Lumens per Lamp: N/A  
Luminaire Lumens: 5371.6 lumens  
Efficiency: N/A  
Efficacy: 115.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 46.4  
Input Voltage (V): 120  
Input Current (Ain): 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

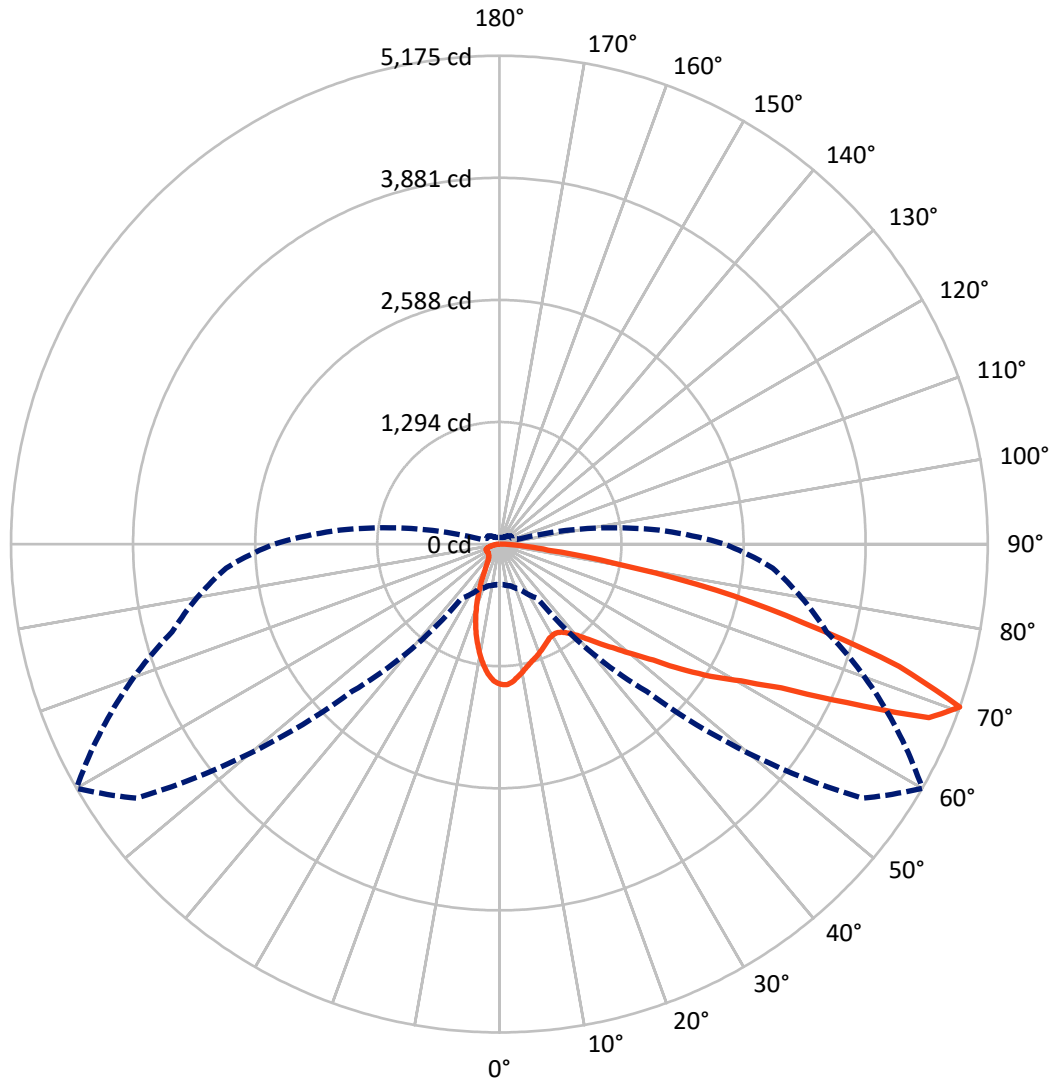
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.9 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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CATALOG NUMBER: GWS-SA2B-830-U-SL3-W

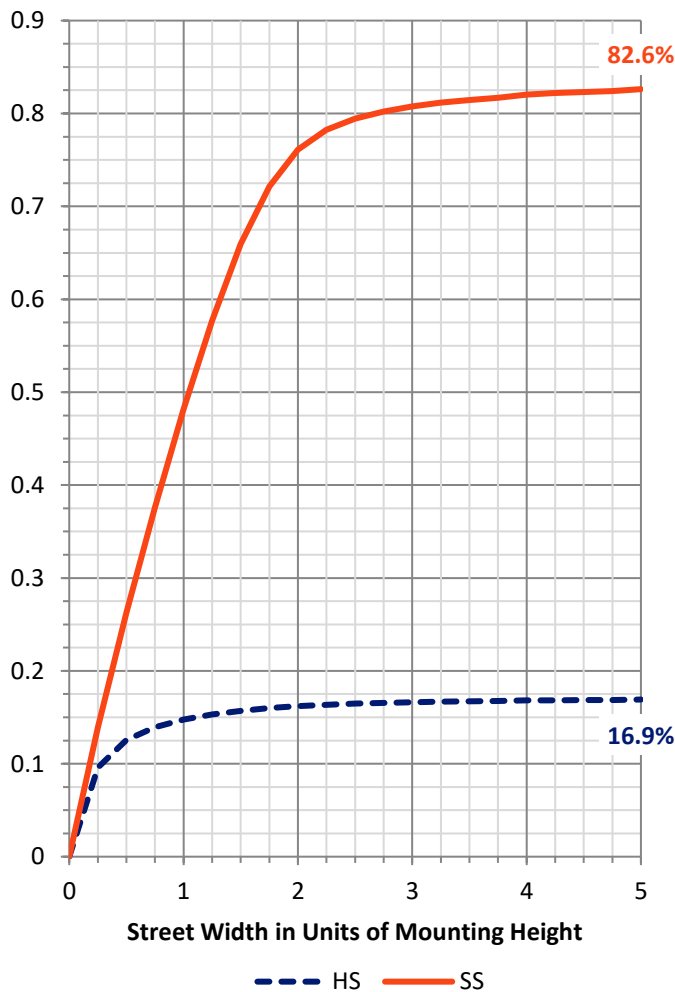
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	918.7	0.0	918.7
	% Fixture	17.1	0.0	17.1
<b>Street Side</b>	Lumens	4452.9	0.0	4452.9
	% Fixture	82.9	0.0	82.9
<b>Total</b>	Lumens	5371.6	0.0	5371.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	128.1	2.4
10°-20°	287.0	5.3
20°-30°	367.6	6.8
30°-40°	483.1	9.0
40°-50°	700.9	13.0
50°-60°	1093.6	20.4
60°-70°	1431.7	26.7
70°-80°	791.7	14.7
80°-90°	87.9	1.6
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°	5371.6	100.0
0°-180°	5371.6	100.0

**Coefficient of Utilization**



REPORT NUMBER: P632041

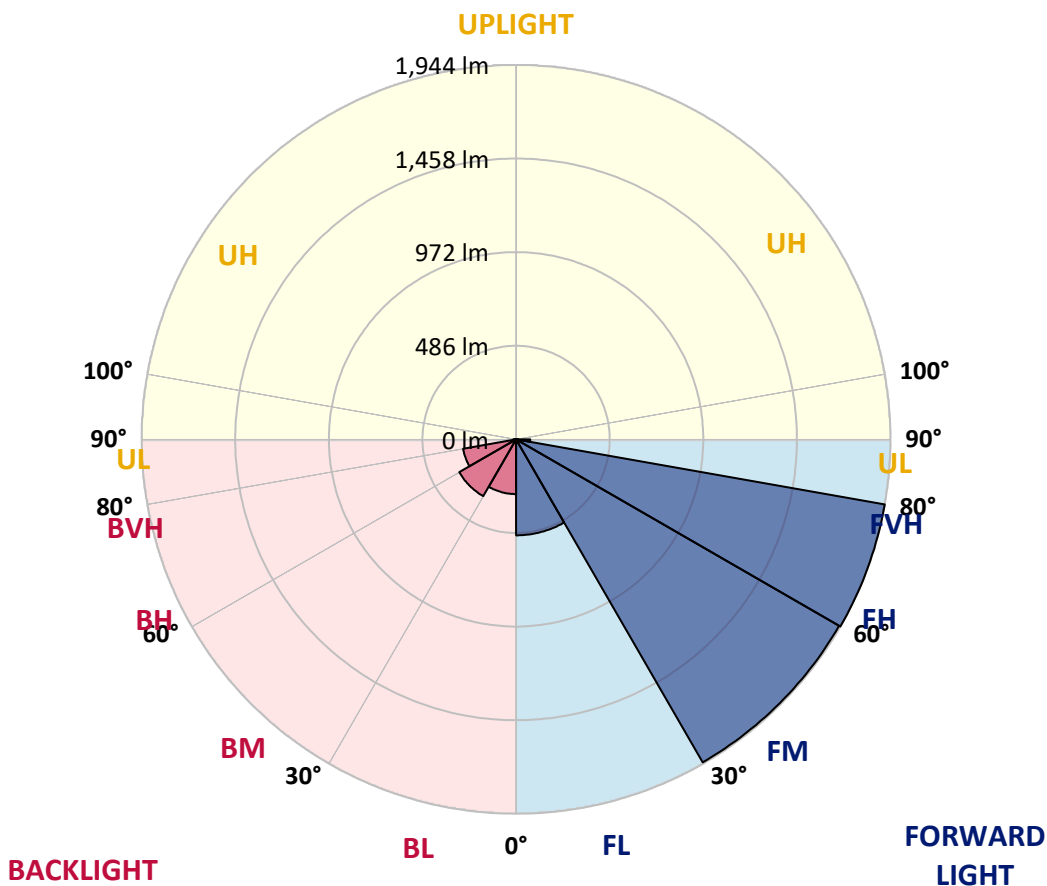
CATALOG NUMBER: GWS-SA2B-830-U-SL3-W

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	498.5	9.3			
FM (30°-60°)	1937.0	36.1			
FH (60°-80°)	1944.2	36.2			G2/5000
FVH (80°-90°)	73.2	1.4			G1/100
BL (0°-30°)	284.2	5.3	B1/500		
BM (30°-60°)	340.6	6.3	B1/1000		
BH (60°-80°)	279.2	5.2	B1/500		G1/500
BVH (80°-90°)	14.6	0.3			G1/100
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 Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	1486.4	1486.4	1486.4	1486.4	1486.4	1486.4	1486.4	1486.4	1486.4	1486.4	1486.4
2.5°	1465.6	1467.1	1471.5	1477.7	1484.0	1487.2	1495.0	1492.7	1491.1	1488.0	1484.0
5°	1400.7	1403.9	1407.8	1420.0	1433.7	1444.7	1462.4	1464.4	1465.2	1466.7	1460.5
7.5°	1318.2	1319.0	1328.4	1344.5	1362.6	1381.5	1410.9	1419.2	1426.3	1434.1	1429.0
10°	1227.0	1229.0	1236.0	1259.2	1290.3	1318.2	1357.9	1371.6	1386.6	1403.9	1396.8
12.5°	1152.3	1152.7	1164.1	1188.9	1222.7	1260.4	1309.9	1326.4	1346.1	1373.2	1366.9
15°	1093.0	1093.0	1103.6	1124.8	1163.7	1208.1	1267.1	1288.3	1315.0	1351.6	1340.6
17.5°	1045.8	1046.2	1052.9	1075.3	1109.9	1159.0	1229.0	1257.7	1287.1	1335.5	1319.0
20°	1021.1	1019.1	1020.3	1034.0	1063.5	1111.1	1190.8	1224.2	1263.9	1324.5	1299.3
22.5°	1019.9	1016.3	1011.2	1012.4	1029.7	1069.0	1150.0	1190.4	1240.4	1315.4	1279.3
25°	1039.9	1036.0	1027.0	1016.7	1015.2	1038.7	1111.5	1157.4	1216.0	1311.5	1260.0
27.5°	1073.7	1071.0	1059.2	1043.9	1027.7	1027.0	1082.4	1130.3	1198.3	1315.4	1246.3
30°	1118.5	1113.8	1106.3	1086.7	1062.3	1037.2	1071.0	1115.8	1186.5	1328.0	1240.4
32.5°	1169.2	1166.5	1159.4	1139.8	1113.8	1073.7	1080.0	1118.9	1186.5	1350.0	1241.5
35°	1223.1	1222.7	1222.7	1209.7	1181.0	1131.1	1115.8	1145.6	1204.6	1385.4	1254.1
37.5°	1275.3	1274.9	1287.5	1292.2	1259.6	1205.8	1176.7	1199.1	1244.3	1437.7	1285.2
40°	1317.8	1319.4	1346.9	1370.5	1352.4	1302.5	1261.6	1273.0	1308.7	1511.9	1339.4
42.5°	1360.6	1364.9	1406.2	1447.9	1454.9	1411.7	1370.5	1377.1	1401.1	1610.2	1420.4
45°	1407.4	1409.4	1467.1	1525.3	1559.5	1533.9	1500.1	1509.2	1514.7	1731.6	1541.0
47.5°	1452.6	1457.7	1532.4	1612.2	1677.0	1674.6	1655.8	1653.0	1654.2	1879.4	1683.7
50°	1514.3	1521.8	1609.4	1705.7	1800.8	1844.4	1849.9	1829.1	1820.5	2043.7	1861.3
52.5°	1631.4	1631.4	1710.0	1804.7	1932.5	2040.5	2077.5	2043.3	2015.8	2217.4	2050.0
55°	1778.0	1784.3	1846.8	1923.4	2085.3	2246.9	2371.9	2334.1	2256.3	2406.4	2247.7
57.5°	1843.3	1851.1	1950.2	2069.2	2285.4	2481.5	2654.8	2641.5	2527.9	2603.0	2452.8
60°	1725.3	1741.9	1878.2	2077.9	2466.6	2860.0	2982.2	2943.3	2781.0	2809.3	2675.3
62.5°	1439.2	1457.3	1608.6	1887.3	2441.4	3269.1	3498.2	3354.8	3097.0	3069.9	2971.6
65°	858.7	858.0	1039.9	1409.4	2131.3	3382.7	4314.9	4047.3	3585.1	3427.5	3276.6
67.5°	545.9	544.7	582.8	746.7	1418.4	3104.4	4840.0	4909.6	4248.1	3690.4	3301.7
70°	430.7	430.4	457.9	532.5	701.5	2209.1	4693.8	5175.3	4648.6	3590.2	2907.1
72.5°	314.0	314.8	357.3	446.1	541.2	1109.1	3800.9	4428.1	4275.6	3169.3	2360.1
75°	225.6	226.8	252.3	341.5	499.1	606.4	2527.5	3329.6	3253.0	2540.5	1623.6
77.5°	143.5	145.0	167.4	239.3	403.2	489.7	1532.4	2350.6	2164.3	1431.4	577.3
80°	87.6	92.8	111.6	178.4	322.3	367.5	766.0	1238.4	1083.9	392.6	194.2
82.5°	45.2	49.1	67.2	110.4	222.1	322.7	433.5	520.4	335.6	164.3	103.4
85°	14.1	16.5	23.6	44.8	105.7	200.0	286.9	258.6	154.1	77.4	47.9
87.5°	3.5	3.5	3.9	3.9	4.3	9.0	55.4	58.6	40.9	24.4	19.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P632041  
 CATALOG NUMBER: GWS-SA2B-830-U-SL3-W

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1486.4	1486.4	1486.4	1486.4	1486.4	1486.4	1486.4	1486.4	1486.4	1486.4	1486.4
2.5°	1476.2	1466.7	1462.8	1462.4	1452.6	1438.4	1429.0	1422.3	1418.4	1417.6	1417.6
5°	1449.8	1437.7	1421.5	1409.4	1383.0	1356.3	1333.9	1321.3	1306.8	1304.8	1304.4
7.5°	1414.9	1397.2	1366.5	1332.3	1286.3	1241.9	1204.2	1178.7	1153.1	1148.4	1146.8
10°	1377.1	1353.2	1300.9	1240.8	1172.0	1105.6	1047.8	1002.6	972.7	951.5	947.6
12.5°	1339.8	1308.0	1231.3	1141.7	1047.4	956.6	869.7	795.9	742.4	711.4	705.9
15°	1304.8	1260.4	1155.5	1041.1	918.5	794.3	671.3	575.4	500.3	473.6	467.3
17.5°	1273.0	1217.6	1082.0	937.0	784.1	621.8	481.8	396.6	352.5	339.2	336.0
20°	1241.1	1173.5	1007.3	827.3	641.4	459.4	352.1	312.1	295.5	290.4	288.9
22.5°	1207.0	1125.2	925.9	719.2	497.2	343.9	288.1	270.4	265.3	265.7	265.3
25°	1172.8	1076.1	840.7	601.7	370.2	279.0	251.5	244.8	246.0	249.6	250.4
27.5°	1144.5	1032.5	757.0	472.8	289.3	240.1	227.2	226.8	231.1	235.8	236.6
30°	1124.0	993.5	674.4	363.5	238.2	213.4	208.3	210.7	215.8	219.3	220.5
32.5°	1109.5	960.1	586.4	285.7	208.7	194.5	192.2	194.5	197.7	201.2	202.0
35°	1104.4	935.8	499.9	233.1	188.6	180.8	179.2	180.4	182.0	183.9	184.7
37.5°	1115.8	923.6	409.5	202.8	176.5	171.7	169.4	168.6	169.0	169.8	170.2
40°	1149.6	929.1	335.6	185.1	168.6	164.3	160.4	158.8	158.4	159.2	158.8
42.5°	1207.7	952.3	282.2	174.9	162.3	156.0	151.7	150.1	150.1	152.1	152.1
45°	1293.0	997.9	243.7	167.4	156.8	149.0	144.2	143.5	145.0	148.2	148.6
47.5°	1418.0	1064.7	220.5	161.9	151.7	142.7	137.9	137.6	140.7	145.8	146.2
50°	1566.2	1161.0	207.9	158.0	148.2	137.6	132.8	133.2	136.8	142.3	143.5
52.5°	1744.6	1292.2	208.7	156.4	146.2	134.4	129.7	128.9	132.4	137.9	139.1
55°	1928.9	1451.8	224.0	156.8	143.5	132.8	126.6	123.8	126.9	130.9	131.3
57.5°	2131.7	1631.8	262.1	156.0	139.9	131.3	123.8	117.5	119.5	121.8	123.0
60°	2360.5	1843.6	344.3	157.6	138.3	127.7	118.3	110.0	109.7	111.2	111.6
62.5°	2666.2	2131.7	436.6	160.4	141.9	123.4	110.0	101.4	99.8	100.6	101.0
65°	2900.1	2269.3	407.6	158.0	149.3	120.3	102.2	93.1	90.0	89.2	89.2
67.5°	2805.0	2087.3	283.8	151.7	152.9	120.7	95.9	84.5	80.6	78.6	78.2
70°	2386.8	1695.5	197.3	145.4	149.0	119.9	89.2	77.4	72.3	69.6	69.2
72.5°	1885.7	1294.6	159.6	132.8	135.2	108.1	79.4	69.6	65.2	61.7	61.7
75°	1213.6	790.0	133.2	118.3	110.4	84.1	68.8	62.1	57.8	54.2	54.2
77.5°	408.3	293.2	103.4	100.2	82.5	63.3	57.8	53.5	49.9	46.8	46.4
80°	165.9	139.1	75.9	75.9	57.8	48.3	45.2	43.2	40.9	36.9	36.9
82.5°	96.3	84.5	53.1	46.0	38.5	33.4	31.4	29.5	29.5	26.7	26.7
85°	46.4	46.8	31.8	28.3	22.0	19.3	18.5	17.3	16.9	15.3	14.9
87.5°	25.2	25.5	16.1	12.6	8.6	7.5	6.3	5.9	5.5	5.1	5.1
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)