

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: P637022

Luminaire Tested: GWS-SA4B-830-U-T4W-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637022
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-52)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4B-830-U-T4W-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: (64) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11399.7 lumens
Efficiency: N/A
Efficacy: 120.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 94.4
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

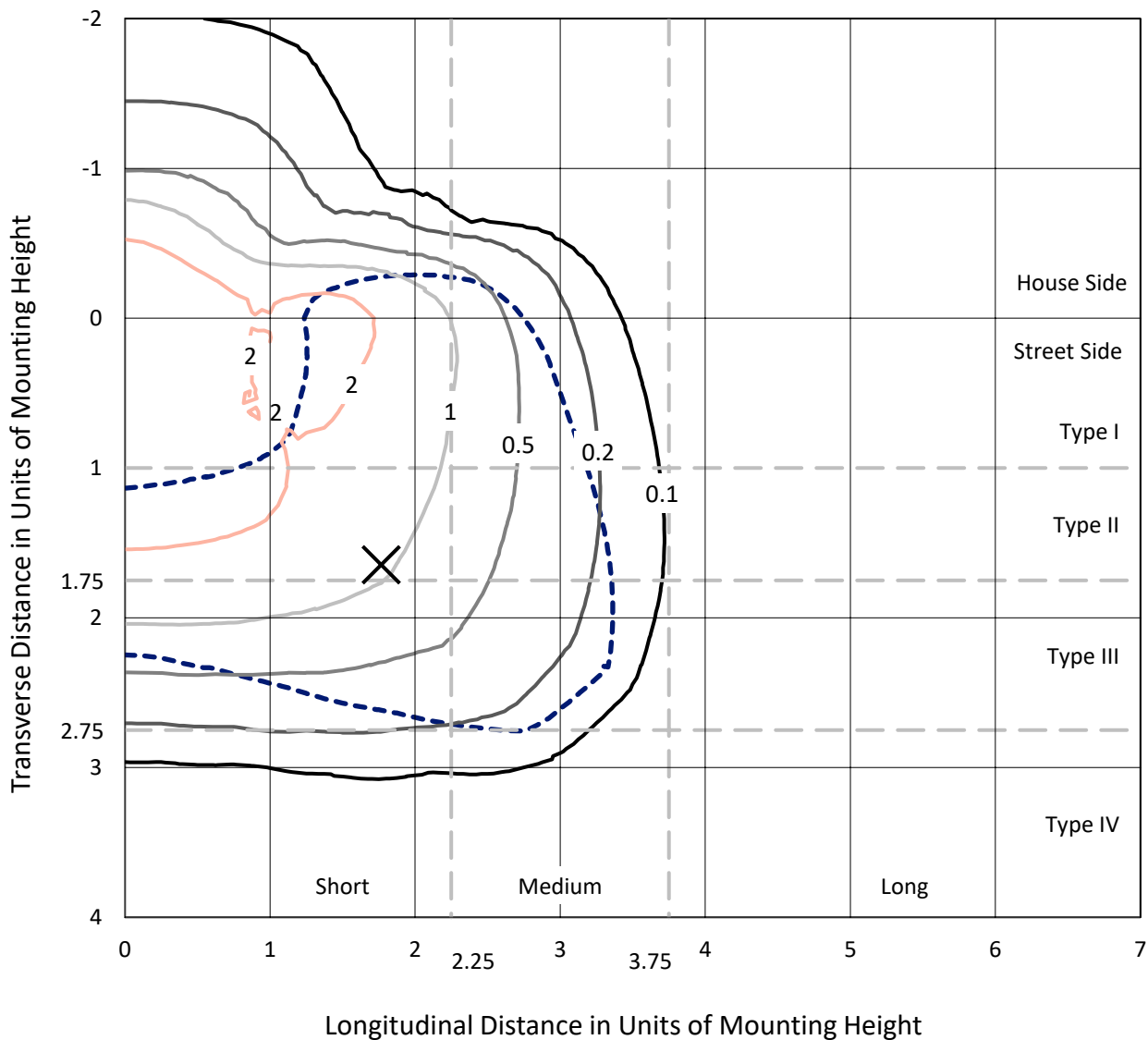


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Iso-Footcandle Lines of Horizontal Illumination

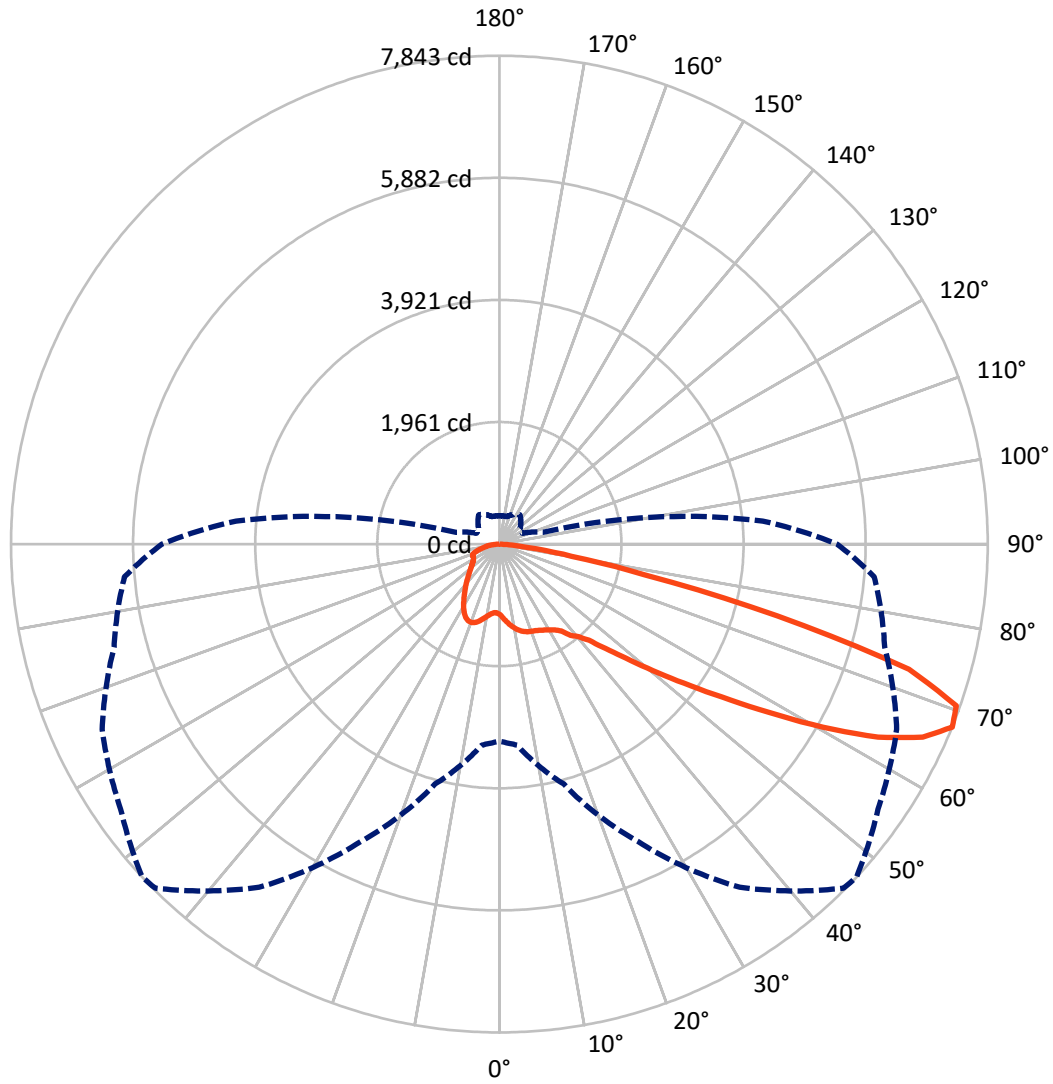
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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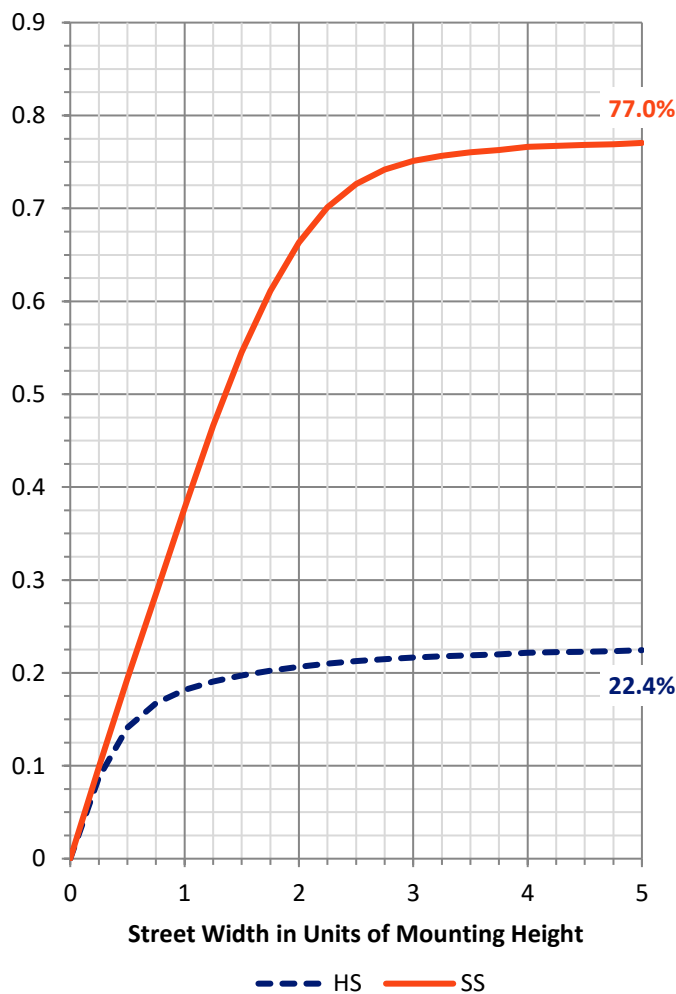
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2598.1	0.0	2598.1
	% Fixture	22.8	0.0	22.8
Street Side	Lumens	8801.6	0.0	8801.6
	% Fixture	77.2	0.0	77.2
Total	Lumens	11399.7	0.0	11399.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.5	1.0
10°-20°	384.8	3.4
20°-30°	654.0	5.7
30°-40°	958.1	8.4
40°-50°	1459.8	12.8
50°-60°	2611.8	22.9
60°-70°	3485.2	30.6
70°-80°	1576.1	13.8
80°-90°	154.4	1.4
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°	11399.7	100.0
0°-180°	11399.7	100.0

Coefficient of Utilization



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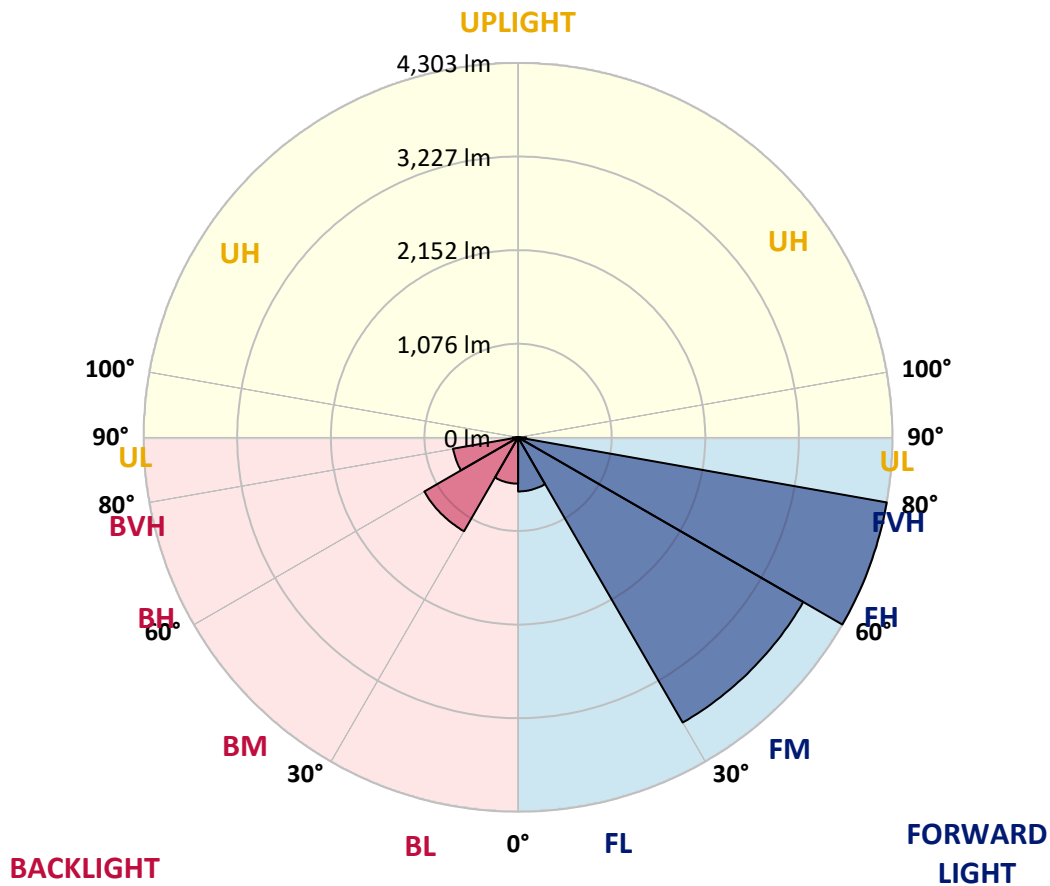
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	621.7	5.5			
FM (30°-60°)	3784.8	33.2			
FH (60°-80°)	4303.3	37.7			G2/5000
FVH (80°-90°)	91.8	0.8			G1/100
BL (0°-30°)	532.6	4.7	B2/1000		
BM (30°-60°)	1244.9	10.9	B2/2500		
BH (60°-80°)	758.0	6.6	B2/1000		G2/1000
BVH (80°-90°)	62.6	0.5			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	1130.1	1130.1	1130.1	1130.1	1130.1	1130.1	1130.1	1130.1	1130.1	1130.1	1130.1
2.5°	1205.1	1209.2	1208.4	1201.8	1197.7	1190.2	1191.1	1179.5	1162.2	1150.7	1137.5
5°	1311.4	1318.0	1309.8	1299.0	1282.6	1258.7	1256.2	1229.8	1196.8	1173.8	1149.9
7.5°	1403.7	1407.8	1398.0	1379.8	1355.9	1323.8	1318.0	1286.7	1245.5	1209.2	1174.6
10°	1475.4	1480.4	1467.2	1443.3	1412.0	1379.8	1375.7	1343.6	1299.9	1257.0	1213.3
12.5°	1536.4	1538.1	1524.1	1491.9	1458.1	1425.2	1421.0	1391.4	1351.0	1307.3	1259.5
15°	1571.9	1572.7	1555.4	1519.9	1487.8	1459.0	1456.5	1430.9	1393.8	1352.6	1301.5
17.5°	1569.4	1571.1	1558.7	1527.4	1499.3	1482.0	1479.6	1463.1	1434.2	1397.1	1346.0
20°	1538.9	1540.6	1532.3	1511.7	1496.9	1491.9	1492.7	1487.8	1470.5	1440.0	1388.1
22.5°	1515.0	1517.5	1510.1	1495.2	1493.6	1505.1	1507.6	1510.1	1501.8	1474.6	1424.3
25°	1526.5	1530.7	1519.1	1498.5	1501.8	1527.4	1532.3	1540.6	1534.0	1510.9	1467.2
27.5°	1606.5	1609.0	1579.3	1537.3	1527.4	1554.6	1562.0	1575.2	1570.2	1548.8	1515.0
30°	1792.0	1790.3	1726.8	1623.8	1582.6	1593.3	1599.1	1618.0	1619.7	1605.7	1573.5
32.5°	2053.3	2045.0	1946.9	1782.9	1663.4	1637.0	1643.6	1669.1	1688.1	1673.3	1629.6
35°	2329.4	2322.0	2214.0	2021.9	1812.6	1721.1	1713.7	1733.4	1762.3	1721.1	1658.4
37.5°	2592.3	2580.8	2470.3	2232.9	1996.4	1868.6	1857.9	1838.1	1820.8	1741.7	1693.9
40°	2884.1	2870.9	2774.5	2505.8	2199.1	1981.5	1954.3	1876.0	1860.4	1810.1	1786.2
42.5°	3195.7	3195.7	3115.7	2851.1	2444.0	2143.1	2107.7	1989.8	2006.3	1973.3	1945.3
45°	3507.3	3516.3	3452.9	3199.0	2771.2	2448.1	2391.2	2223.9	2263.4	2248.6	2234.6
47.5°	3772.7	3790.0	3777.6	3554.2	3171.8	2819.0	2732.4	2558.5	2643.4	2678.9	2718.4
50°	4058.7	4077.7	4065.3	3977.1	3640.8	3268.2	3190.7	3011.0	3156.9	3263.3	3392.7
52.5°	4483.2	4510.4	4407.4	4373.6	4210.4	3778.4	3709.2	3504.8	3769.4	3945.8	4234.3
55°	4841.7	4840.9	4804.7	4882.1	4822.0	4402.4	4325.8	4140.3	4478.2	4665.4	5087.4
57.5°	5008.3	5028.0	5152.5	5371.8	5492.1	5164.9	5091.5	4901.9	5239.0	5336.3	5792.1
60°	5094.0	5118.7	5359.4	5793.0	6116.9	5997.4	5968.5	5727.0	5916.6	5905.1	6386.4
62.5°	4973.6	5023.1	5409.7	5985.8	6562.8	6834.0	6824.9	6459.8	6492.8	6379.8	6754.9
65°	4421.4	4474.9	5081.6	5889.4	6817.5	7470.3	7472.8	7123.3	6935.4	6610.6	6693.1
67.5°	3161.9	3238.5	3988.6	5269.5	6727.7	7814.1	7842.9	7424.2	7039.2	6406.2	6043.5
70°	1723.5	1779.6	2367.3	3830.4	5918.2	7731.6	7785.2	7279.1	6581.0	5541.6	4652.2
72.5°	783.1	801.2	1101.2	2101.9	4043.0	6655.1	6879.3	6496.1	5404.7	4093.3	2958.3
75°	358.6	366.8	479.7	1005.6	2112.6	4453.5	4611.0	4838.5	3761.1	2584.9	1542.2
77.5°	225.0	227.5	272.8	459.9	1053.4	2223.1	2388.7	2880.8	2202.4	1279.3	644.6
80°	132.7	135.2	169.8	248.9	494.6	1017.1	1174.6	1139.1	1035.3	552.3	293.4
82.5°	66.8	69.2	98.1	141.8	269.5	404.7	476.4	478.9	385.8	299.2	165.7
85°	23.9	24.7	32.1	56.1	114.6	133.5	149.2	182.2	188.8	173.9	80.0
87.5°	0.0	0.0	0.8	1.6	3.3	13.2	14.0	26.4	55.2	61.8	32.1
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°	1130.1	1130.1	1130.1	1130.1	1130.1	1130.1	1130.1	1130.1	1130.1	1130.1	1130.1
2.5°	1133.4	1121.0	1116.9	1112.8	1106.2	1103.7	1098.7	1093.8	1093.8	1088.9	1086.4
5°	1139.1	1122.7	1111.9	1107.0	1102.9	1105.3	1105.3	1107.0	1112.8	1109.5	1111.1
7.5°	1159.7	1140.8	1125.9	1121.8	1121.8	1131.7	1138.3	1146.6	1157.3	1158.9	1158.9
10°	1196.0	1173.8	1158.1	1155.6	1159.7	1173.8	1183.6	1193.5	1206.7	1207.6	1209.2
12.5°	1235.6	1213.3	1197.7	1201.0	1205.1	1223.2	1233.9	1242.2	1255.4	1255.4	1254.5
15°	1276.8	1252.1	1238.9	1245.5	1257.8	1278.4	1280.1	1280.9	1287.5	1285.9	1285.0
17.5°	1319.7	1293.3	1283.4	1293.3	1306.5	1316.4	1308.1	1296.6	1294.1	1290.8	1289.2
20°	1361.7	1334.5	1330.4	1337.8	1341.9	1333.7	1308.1	1286.7	1276.8	1271.8	1270.2
22.5°	1398.0	1374.9	1372.4	1372.4	1351.8	1322.9	1285.0	1256.2	1243.0	1236.4	1234.8
25°	1440.8	1419.4	1415.3	1393.0	1340.3	1287.5	1236.4	1210.0	1199.3	1196.0	1196.8
27.5°	1491.1	1476.3	1463.1	1399.6	1307.3	1224.9	1167.2	1155.6	1151.5	1155.6	1158.1
30°	1552.9	1538.1	1508.4	1391.4	1254.5	1143.3	1088.0	1087.2	1099.6	1110.3	1111.9
32.5°	1603.2	1596.6	1548.0	1365.0	1180.4	1053.4	1006.4	1009.7	1032.0	1046.8	1049.3
35°	1642.8	1653.5	1580.9	1321.3	1092.2	968.5	931.4	933.1	945.4	966.0	966.9
37.5°	1698.8	1735.1	1610.6	1254.5	990.8	895.2	861.4	849.0	847.3	853.1	854.8
40°	1811.7	1866.1	1632.1	1157.3	892.7	829.2	791.3	767.4	746.8	731.1	726.2
42.5°	1982.4	2045.0	1644.4	1039.4	805.3	764.1	721.2	690.7	654.5	621.5	610.0
45°	2295.6	2316.2	1644.4	914.1	727.8	703.1	660.2	624.0	577.8	539.1	530.8
47.5°	2796.7	2730.8	1646.1	792.9	659.4	649.5	612.4	571.2	520.1	488.0	483.0
50°	3551.8	3320.2	1679.9	692.4	602.5	604.2	577.0	531.7	485.5	461.6	457.5
52.5°	4407.4	4046.3	1770.5	618.2	554.7	567.1	552.3	508.6	467.4	446.8	442.6
55°	5211.8	4714.0	1848.0	565.4	514.3	535.8	534.9	494.6	457.5	436.9	434.4
57.5°	5896.0	5171.5	1836.5	522.6	479.7	506.9	519.3	485.5	450.9	433.6	431.1
60°	6321.3	5413.8	1672.4	483.0	453.3	486.3	510.2	483.0	454.2	450.1	450.9
62.5°	6505.9	5369.3	1357.6	453.3	436.0	476.4	520.1	500.3	484.7	494.6	500.3
65°	6219.1	4986.8	999.0	431.1	419.6	478.9	543.2	527.5	484.7	491.3	493.7
67.5°	5422.9	4245.0	722.1	408.8	398.9	486.3	576.2	523.4	456.6	456.6	451.7
70°	3907.9	3053.1	524.2	386.6	378.3	475.6	577.8	495.4	424.5	422.0	409.7
72.5°	2351.6	1801.0	408.8	361.9	347.0	422.0	541.5	462.4	393.2	372.6	357.7
75°	1221.6	902.6	342.9	334.7	297.6	357.7	495.4	411.3	336.3	318.2	309.9
77.5°	523.4	422.0	294.3	298.4	247.3	300.9	399.8	356.1	298.4	275.3	267.9
80°	258.0	239.9	232.4	239.0	197.8	232.4	344.5	311.6	253.1	226.7	216.0
82.5°	147.5	140.1	167.3	169.8	140.9	194.5	291.0	263.8	209.4	180.5	163.2
85°	68.4	73.4	101.4	102.2	87.4	133.5	190.4	148.4	111.3	92.3	88.2
87.5°	27.2	32.1	44.5	43.7	25.6	24.7	16.5	9.1	7.4	6.6	5.8
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)