

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: P633055

Luminaire Tested: GWS-SA2D-830-U-T3R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633055
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2D-830-U-T3R-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (32) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5817.4 lumens
Efficiency: N/A
Efficacy: 70.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

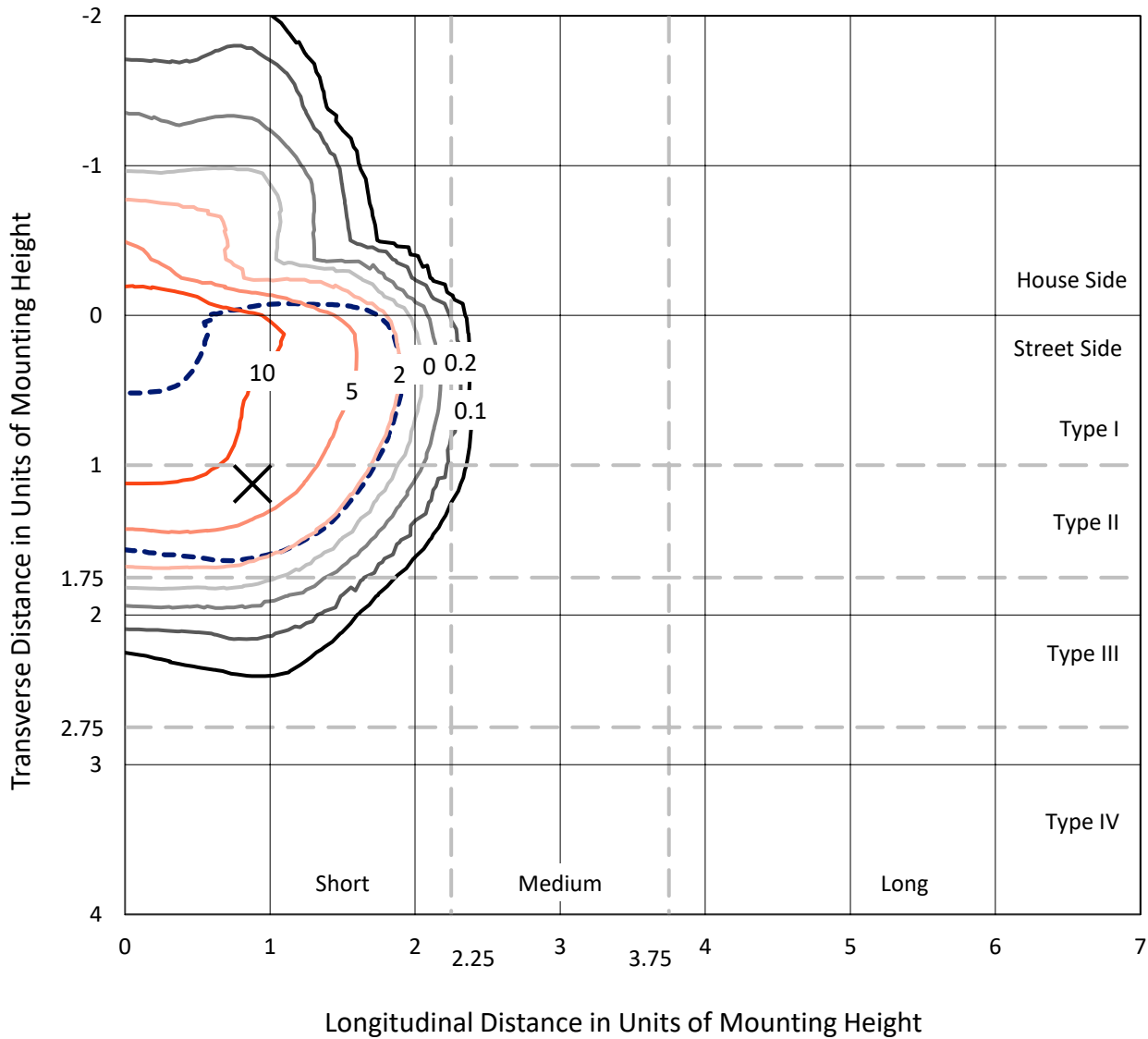
Input Watts (W): 82.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

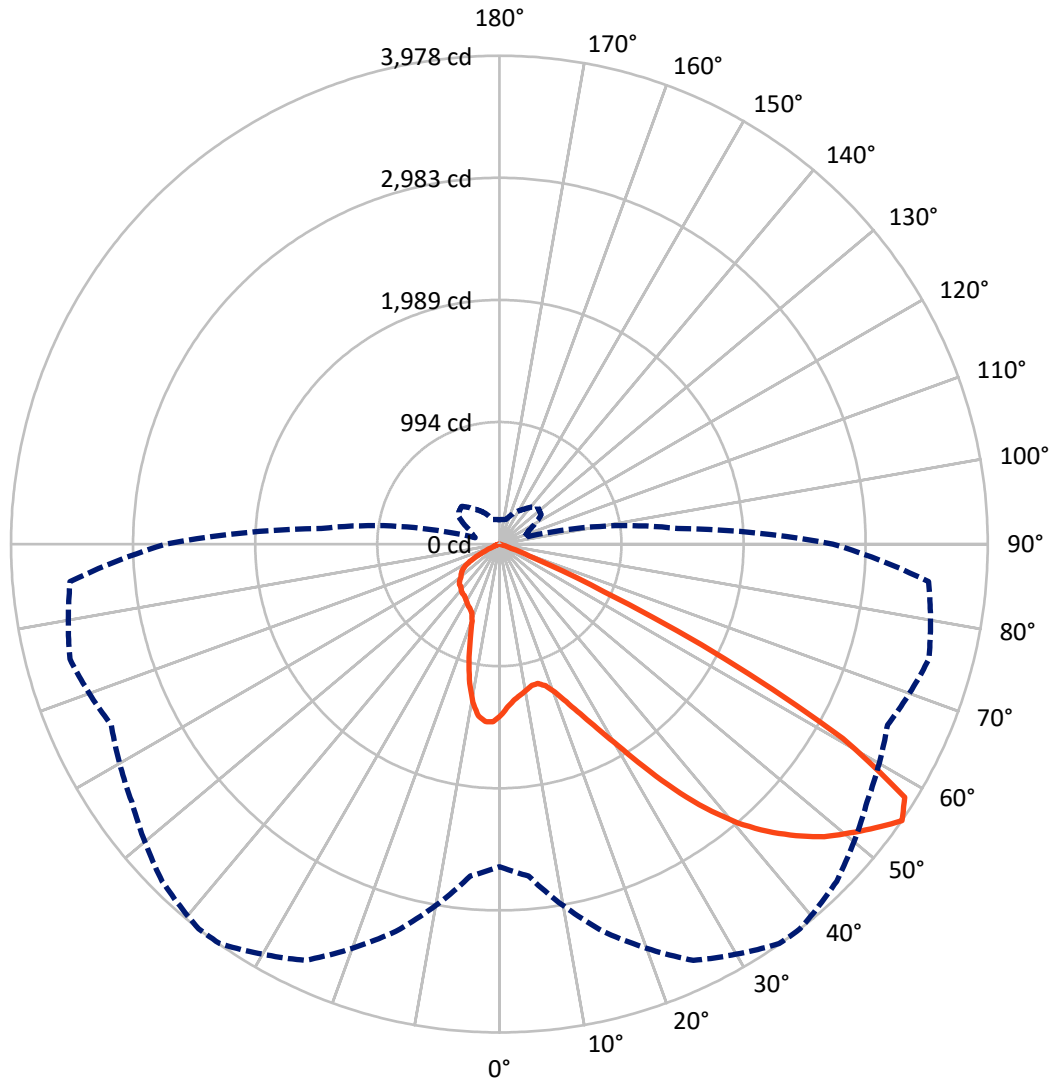
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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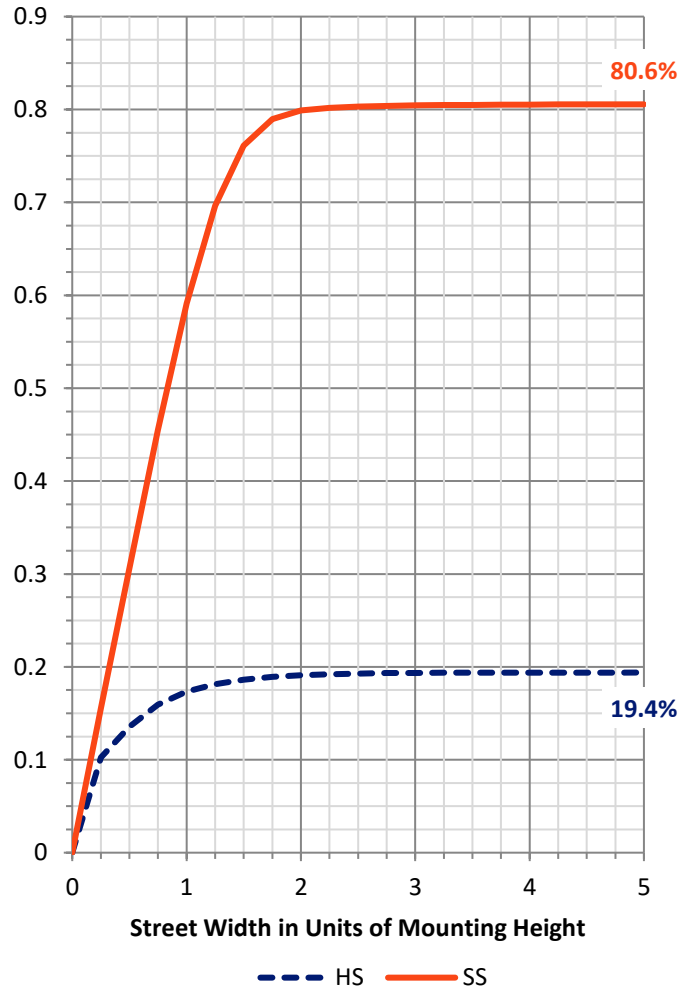
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1133.4	0.0	1133.4
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	4684.0	0.0	4684.0
	% Fixture	80.5	0.0	80.5
Total	Lumens	5817.4	0.0	5817.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.0	2.2
10°-20°	347.3	6.0
20°-30°	595.9	10.2
30°-40°	988.4	17.0
40°-50°	1453.0	25.0
50°-60°	1697.8	29.2
60°-70°	575.5	9.9
70°-80°	29.4	0.5
80°-90°	1.2	0.0
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°	5817.4	100.0
0°-180°	5817.4	100.0

Coefficient of Utilization



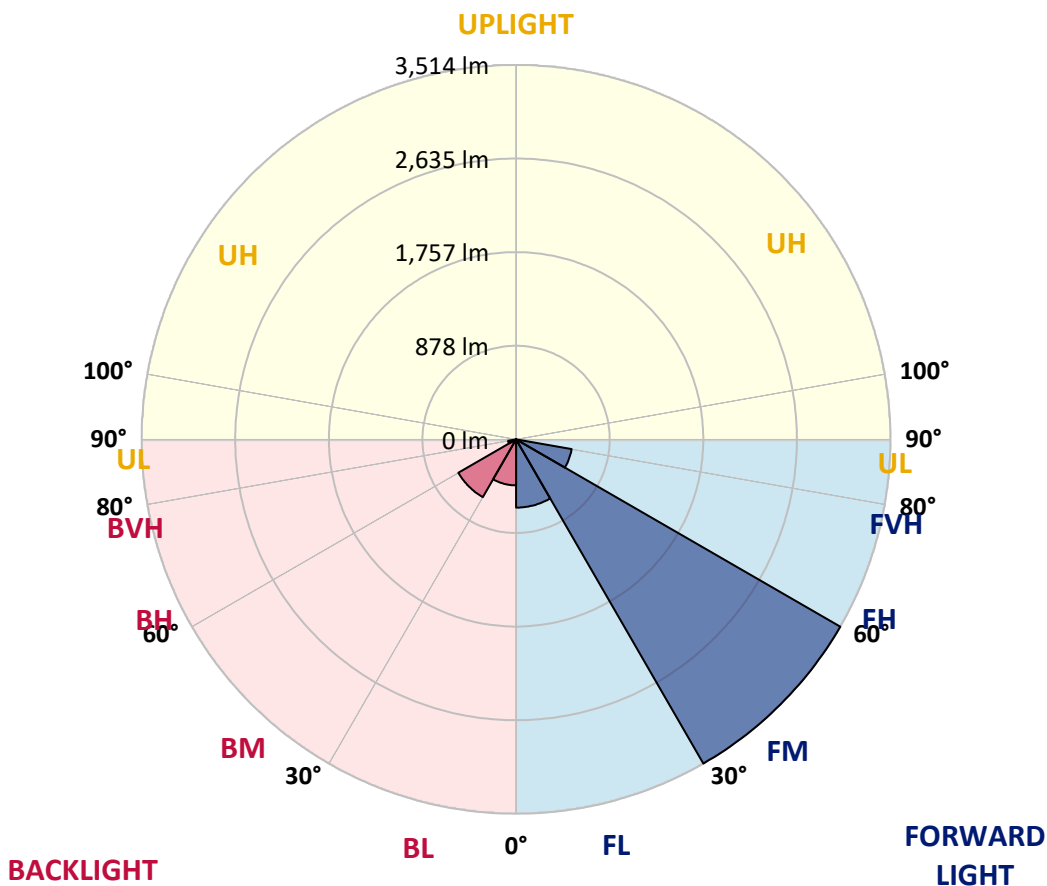
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	640.4	11.0			
FM (30°-60°)	3513.6	60.4			
FH (60°-80°)	529.5	9.1			G0/660
FVH (80°-90°)	0.6	0.0			G0/10
BL (0°-30°)	431.8	7.4	B1/500		
BM (30°-60°)	625.6	10.8	B1/1000		
BH (60°-80°)	75.5	1.3	B0/110		G0/110
BVH (80°-90°)	0.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G0
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	1395.1	1395.1	1395.1	1395.1	1395.1	1395.1	1395.1	1395.1	1395.1	1395.1	1395.1
2.5°	1299.3	1296.6	1302.0	1312.6	1322.6	1325.9	1335.9	1349.8	1358.5	1379.1	1395.7
5°	1240.8	1239.5	1244.8	1254.1	1267.4	1272.0	1287.3	1310.6	1333.9	1369.8	1405.0
7.5°	1187.6	1186.9	1194.9	1215.5	1234.8	1240.8	1259.4	1288.0	1319.3	1374.4	1426.3
10°	1117.8	1118.4	1133.7	1163.0	1198.2	1210.2	1240.1	1281.4	1321.9	1393.1	1464.9
12.5°	1095.2	1096.5	1104.5	1127.1	1165.7	1180.9	1222.8	1285.3	1337.2	1419.7	1514.7
15°	1150.4	1150.4	1143.7	1146.4	1163.7	1177.6	1221.5	1298.6	1363.1	1451.6	1564.0
17.5°	1257.4	1253.4	1236.8	1214.2	1208.2	1212.9	1248.1	1327.2	1399.7	1488.8	1619.8
20°	1402.4	1403.7	1371.1	1323.9	1286.0	1285.3	1306.6	1377.8	1452.2	1533.4	1680.3
22.5°	1577.9	1572.6	1529.4	1464.9	1399.0	1393.7	1402.4	1454.9	1528.0	1603.9	1754.8
25°	1781.4	1778.7	1717.6	1631.1	1544.0	1531.4	1531.4	1583.2	1636.4	1704.3	1843.9
27.5°	1994.2	1994.2	1935.0	1835.3	1719.6	1696.9	1693.6	1754.8	1790.0	1803.3	1919.0
30°	2212.9	2210.3	2151.8	2049.4	1925.7	1902.4	1893.1	1938.3	1963.6	1923.7	2012.8
32.5°	2435.0	2439.7	2380.5	2285.4	2175.0	2159.7	2131.2	2131.2	2151.8	2095.9	2160.4
35°	2673.7	2672.4	2625.9	2561.4	2467.0	2449.7	2402.5	2328.6	2359.9	2335.3	2364.5
37.5°	2884.5	2894.5	2871.9	2824.0	2747.6	2730.3	2652.5	2518.8	2542.8	2581.3	2607.3
40°	3098.6	3106.6	3129.2	3113.9	3017.5	2985.6	2847.3	2627.9	2654.5	2786.8	2861.3
42.5°	3308.8	3312.8	3358.6	3383.9	3254.9	3199.1	2994.9	2694.4	2722.3	2947.7	3078.0
45°	3442.4	3451.1	3526.9	3604.0	3464.4	3387.9	3123.3	2779.5	2791.4	3059.4	3238.3
47.5°	3437.1	3457.1	3599.4	3739.7	3644.6	3562.1	3277.5	2915.8	2895.8	3164.5	3344.0
50°	3330.1	3354.0	3558.1	3780.9	3774.2	3697.8	3449.1	3113.3	3050.8	3257.6	3357.3
52.5°	3108.0	3177.1	3485.6	3786.2	3878.6	3840.1	3661.2	3379.3	3260.2	3391.2	3378.6
55°	2627.9	2713.0	3265.6	3741.0	3973.1	3977.7	3884.0	3656.5	3487.6	3621.3	3509.6
57.5°	1994.8	2062.7	2513.5	3330.1	3816.8	3893.3	3970.4	3802.8	3627.9	3778.2	3540.2
60°	1202.2	1280.7	1573.9	2443.7	3082.7	3213.0	3515.6	3483.0	3272.2	3336.7	2903.2
62.5°	487.4	528.6	726.8	1346.5	1940.3	2062.0	2351.9	2401.1	2349.3	2283.4	1760.8
65°	178.2	194.8	291.2	556.6	892.4	936.9	1089.8	1177.0	1248.8	1063.2	655.0
67.5°	110.4	121.0	189.5	285.9	324.5	301.9	307.2	366.4	349.8	216.1	117.0
70°	81.8	90.4	148.3	198.2	131.0	101.1	68.5	73.1	65.8	57.9	57.2
72.5°	56.5	64.5	111.0	117.0	50.5	35.9	25.3	35.2	39.9	39.2	40.6
75°	37.2	43.2	69.8	45.9	12.6	10.0	8.6	18.6	23.9	23.9	24.6
77.5°	21.9	25.3	24.6	9.3	2.7	2.7	2.0	3.3	5.3	6.0	7.3
80°	2.7	2.0	1.3	1.3	1.3	1.3	1.3	1.3	2.0	2.0	2.0
82.5°	0.7	0.7	0.7	1.3	1.3	1.3	1.3	1.3	1.3	2.0	2.0
85°	0.0	0.0	0.7	0.7	1.3	1.3	1.3	1.3	1.3	2.0	2.0
87.5°	0.0	0.0	0.7	0.7	1.3	1.3	1.3	1.3	1.3	2.0	2.0
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°	1395.1	1395.1	1395.1	1395.1	1395.1	1395.1	1395.1	1395.1	1395.1	1395.1	1395.1
2.5°	1408.4	1403.7	1423.0	1436.9	1448.3	1453.6	1446.3	1445.6	1445.6	1431.0	1427.0
5°	1425.0	1427.0	1454.2	1466.2	1468.2	1461.6	1444.9	1433.6	1427.0	1411.7	1403.0
7.5°	1456.9	1463.5	1489.5	1487.5	1469.5	1438.9	1395.1	1361.1	1339.2	1315.3	1300.6
10°	1502.8	1515.4	1531.4	1503.4	1446.3	1368.5	1278.0	1213.5	1175.0	1147.7	1131.1
12.5°	1558.6	1571.3	1565.9	1500.1	1381.1	1242.1	1125.8	1032.7	988.1	963.5	946.2
15°	1615.2	1623.1	1588.6	1460.2	1266.1	1079.2	949.5	857.1	802.6	782.6	768.0
17.5°	1673.0	1671.0	1592.5	1381.8	1112.5	895.7	768.0	704.8	689.5	686.2	684.9
20°	1733.5	1715.6	1576.6	1269.4	927.6	714.2	641.7	645.7	673.6	686.9	689.5
22.5°	1802.7	1757.5	1536.7	1117.1	738.8	595.1	602.4	641.7	679.6	697.5	700.2
25°	1876.5	1796.0	1470.2	921.6	582.5	547.3	590.5	635.7	676.3	698.2	700.9
27.5°	1925.0	1805.3	1361.1	724.8	500.0	528.6	574.5	617.7	659.6	683.6	686.9
30°	1977.5	1801.3	1212.9	558.6	472.1	512.7	552.6	591.8	630.4	657.0	659.6
32.5°	2054.7	1798.7	1032.0	453.5	460.8	500.0	529.3	561.9	588.5	603.8	601.8
35°	2155.8	1795.4	821.2	408.9	454.2	490.1	513.3	528.6	499.4	490.1	492.1
37.5°	2285.4	1803.3	643.7	390.3	452.2	487.4	507.4	463.5	418.3	401.0	398.3
40°	2429.0	1823.9	490.7	383.0	458.8	494.1	484.7	412.3	356.4	322.5	315.2
42.5°	2573.3	1846.6	388.3	380.3	470.1	512.7	447.5	375.0	291.2	272.0	269.3
45°	2680.4	1842.6	335.8	375.7	480.1	523.3	437.5	321.8	260.0	251.3	252.0
47.5°	2734.3	1798.7	307.2	365.1	484.1	512.7	412.9	299.9	238.7	248.0	256.0
50°	2705.7	1685.0	280.6	344.4	475.4	498.7	373.7	283.3	228.1	266.6	284.6
52.5°	2671.1	1545.3	251.3	312.5	454.8	479.4	358.4	278.6	221.4	257.3	270.6
55°	2717.0	1456.9	203.5	263.3	414.3	434.2	346.4	277.9	206.1	200.1	198.2
57.5°	2652.5	1280.7	145.6	189.5	317.8	343.8	337.8	273.3	182.9	182.2	184.9
60°	2050.0	781.3	99.7	120.4	194.8	219.4	306.5	261.3	157.6	145.0	145.6
62.5°	1165.0	332.5	68.5	74.5	99.7	118.4	234.1	237.4	145.6	138.3	145.6
65°	405.6	119.0	53.2	49.9	55.2	63.2	134.3	183.5	132.3	119.7	121.0
67.5°	83.8	59.2	47.2	41.2	41.2	41.2	68.5	114.4	109.1	95.1	96.4
70°	53.2	50.5	41.2	35.2	33.9	31.3	39.2	63.2	75.1	69.2	69.8
72.5°	39.2	38.6	32.6	28.6	25.3	22.6	24.6	31.3	38.6	39.9	40.6
75°	23.9	24.6	21.3	18.0	16.0	14.0	14.6	14.6	14.6	13.3	14.6
77.5°	7.3	8.0	6.6	5.3	4.7	4.7	4.7	4.0	3.3	2.0	2.0
80°	2.0	2.0	2.0	2.0	2.0	1.3	1.3	0.7	0.7	0.0	0.0
82.5°	2.0	2.0	2.0	2.0	1.3	1.3	0.7	0.7	0.0	0.0	0.0
85°	2.0	2.0	2.0	2.0	1.3	1.3	0.7	0.7	0.0	0.0	0.0
87.5°	2.0	2.0	2.0	2.0	1.3	1.3	0.7	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)