

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: P632803

Luminaire Tested: GWS-SA2D-740-U-RW-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632803
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-49)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2D-740-U-RW-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12019.7 lumens
Efficiency: N/A
Efficacy: 146.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

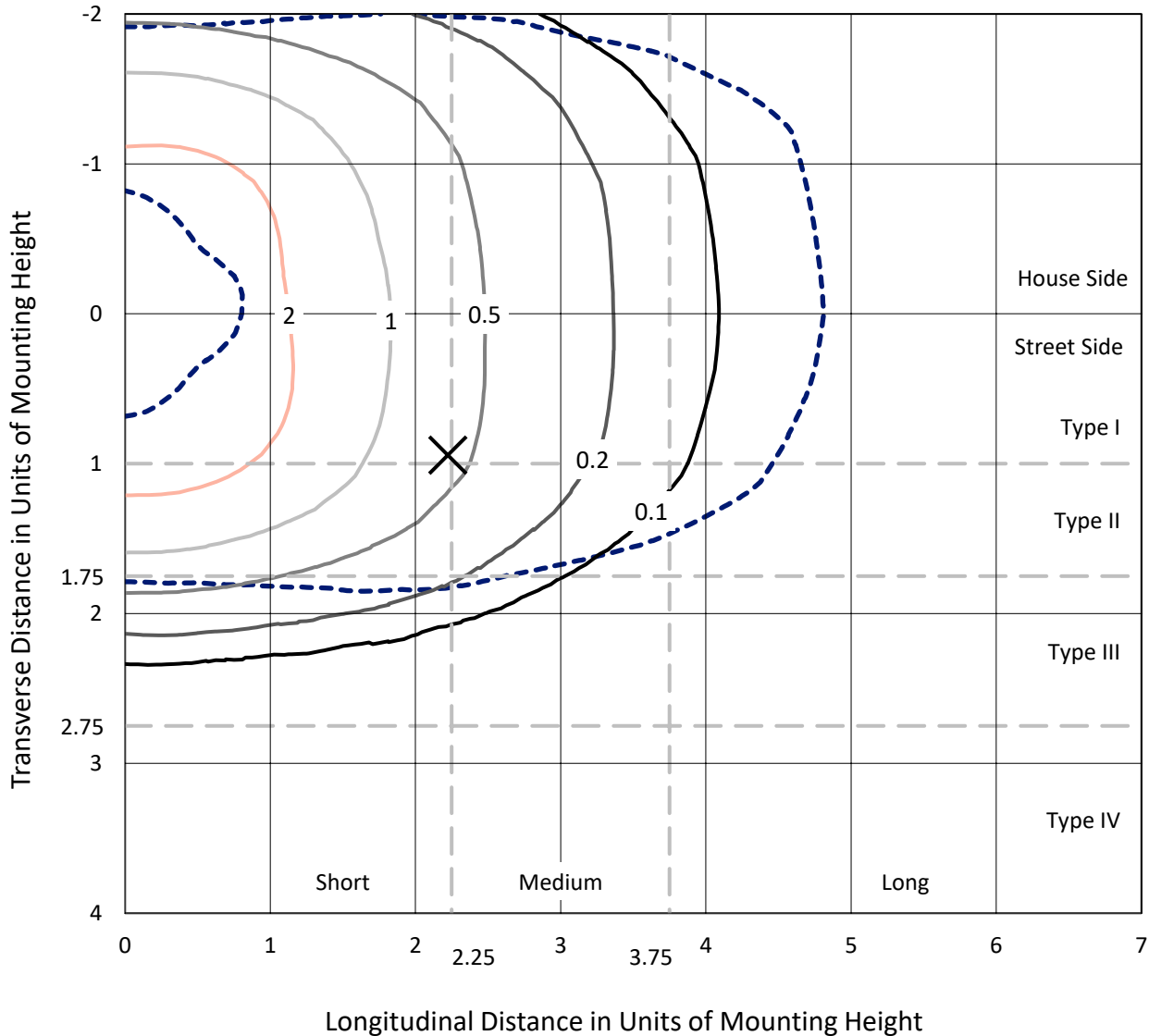
Input Watts (W): 82.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

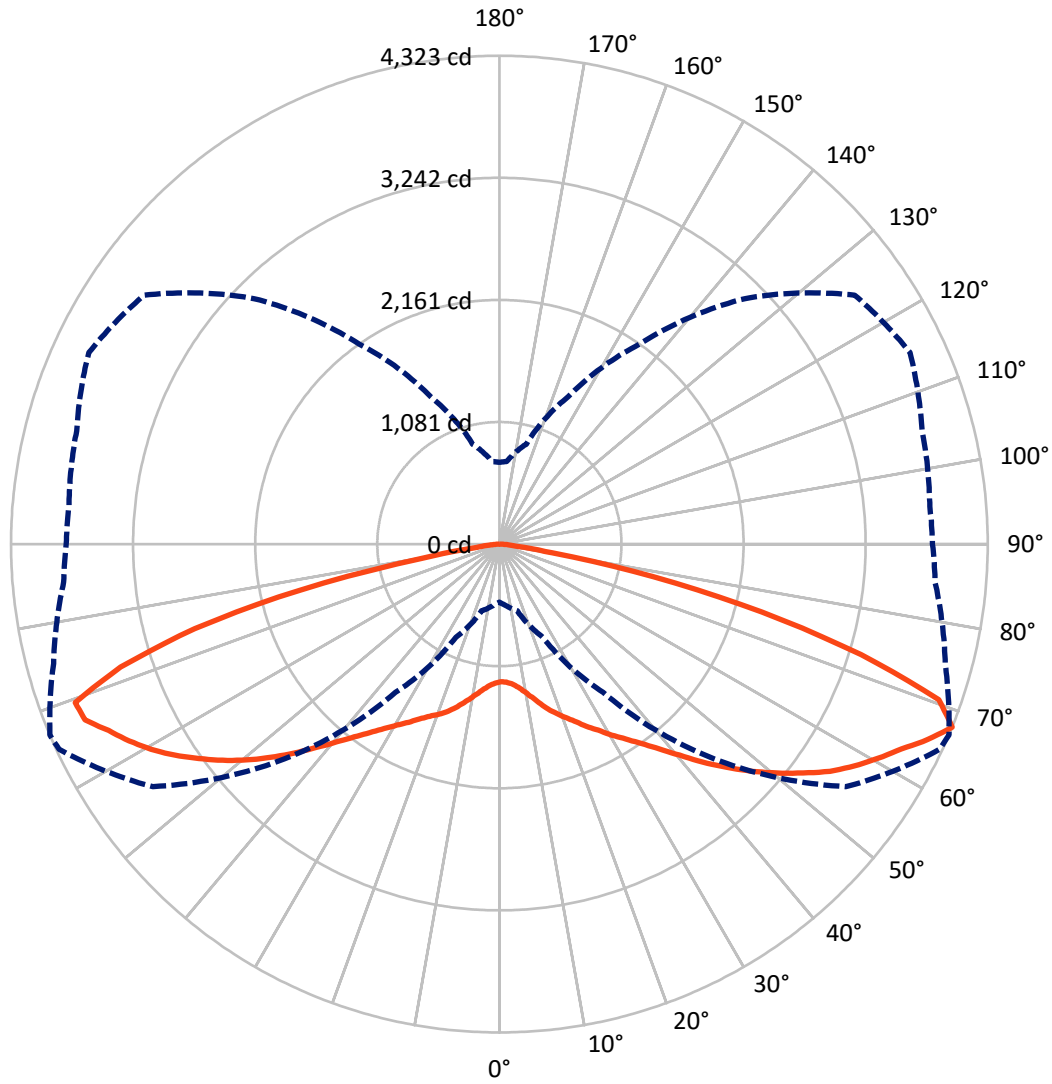
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5943.5	0.0	5943.5
	% Fixture	49.4	0.0	49.4
Street Side	Lumens	6076.2	0.0	6076.2
	% Fixture	50.6	0.0	50.6
Total	Lumens	12019.7	0.0	12019.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.4	1.0
10°-20°	403.4	3.4
20°-30°	791.5	6.6
30°-40°	1348.4	11.2
40°-50°	2165.3	18.0
50°-60°	2942.2	24.5
60°-70°	2814.4	23.4
70°-80°	1338.1	11.1
80°-90°	97.0	0.8
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°	12019.7	100.0
0°-180°	12019.7	100.0

Coefficient of Utilization



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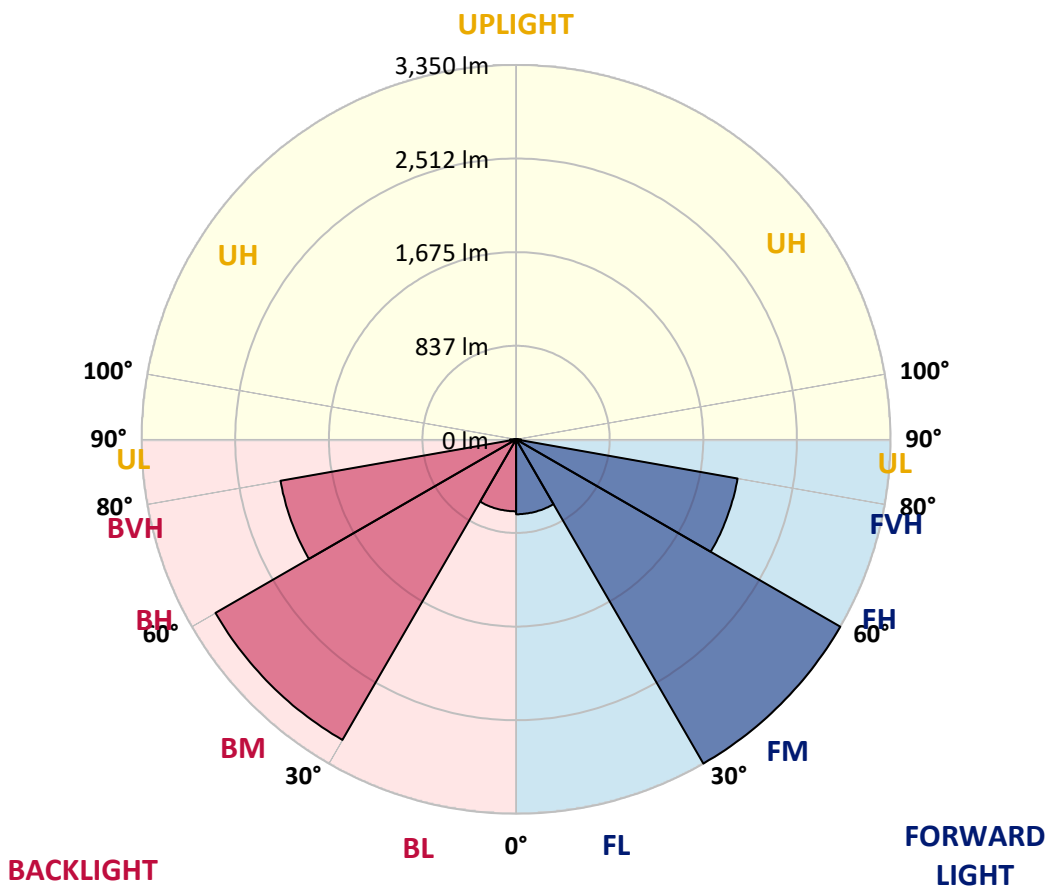
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	670.2	5.6			
FM	(30°-60°)	3350.0	27.9			
FH	(60°-80°)	2012.4	16.7			G2/5000
FVH	(80°-90°)	43.6	0.4			G1/100
BL	(0°-30°)	644.1	5.4	B2/1000		
BM	(30°-60°)	3106.0	25.8	B3/5000		
BH	(60°-80°)	2140.1	17.8	B3/2500		G3/2500
BVH	(80°-90°)	53.4	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1217.1	1217.1	1217.1	1217.1	1217.1	1217.1	1217.1	1217.1	1217.1	1217.1	1217.1
2.5°	1192.0	1193.6	1196.1	1201.2	1206.2	1213.7	1221.2	1220.4	1223.8	1226.3	1228.8
5°	1185.3	1186.9	1191.1	1197.8	1205.3	1217.9	1233.8	1240.5	1245.5	1254.7	1263.1
7.5°	1199.5	1202.8	1208.7	1217.9	1229.6	1245.5	1267.3	1279.0	1286.5	1303.3	1317.5
10°	1218.7	1222.9	1234.6	1252.2	1269.8	1294.1	1321.7	1339.3	1344.3	1366.1	1392.8
12.5°	1237.2	1242.2	1261.4	1293.2	1325.0	1357.7	1390.3	1412.1	1413.8	1443.1	1473.2
15°	1266.4	1270.6	1296.6	1337.6	1386.1	1431.3	1471.5	1486.6	1493.3	1514.2	1551.9
17.5°	1330.9	1335.9	1369.4	1413.8	1464.8	1512.5	1552.7	1565.3	1565.3	1582.8	1613.8
20°	1400.4	1405.4	1449.8	1506.7	1568.6	1617.2	1648.1	1636.4	1632.2	1637.3	1659.0
22.5°	1478.2	1487.4	1530.1	1596.2	1672.4	1731.8	1747.7	1712.6	1700.9	1689.2	1694.2
25°	1577.8	1588.7	1630.6	1700.9	1775.4	1838.1	1847.4	1792.9	1786.3	1745.2	1730.2
27.5°	1692.5	1700.9	1752.8	1822.2	1891.7	1944.5	1954.5	1887.5	1864.9	1808.0	1772.9
30°	1840.7	1848.2	1893.4	1962.0	2022.3	2059.1	2071.7	1979.6	1962.0	1875.0	1820.6
32.5°	2002.2	2005.6	2051.6	2117.7	2171.3	2206.4	2188.9	2081.7	2055.8	1957.8	1883.3
35°	2187.2	2187.2	2246.6	2300.2	2342.9	2352.9	2319.4	2197.2	2167.1	2060.8	1967.9
37.5°	2368.8	2373.9	2429.1	2492.7	2530.4	2528.7	2467.6	2333.7	2299.4	2183.8	2080.9
40°	2565.5	2576.4	2631.7	2702.8	2738.8	2733.8	2640.0	2491.0	2455.9	2319.4	2219.0
42.5°	2746.3	2763.9	2828.4	2901.2	2940.5	2937.2	2839.3	2671.8	2637.5	2483.5	2383.1
45°	2890.3	2908.7	2989.1	3090.4	3153.1	3147.3	3048.5	2859.3	2817.5	2655.9	2545.5
47.5°	3016.7	3036.0	3125.5	3232.7	3332.3	3342.3	3251.9	3048.5	3004.2	2840.9	2716.2
50°	3113.8	3123.0	3223.5	3340.6	3456.2	3512.2	3433.6	3238.5	3185.0	3023.4	2882.8
52.5°	3106.3	3118.8	3242.7	3401.7	3556.6	3648.7	3594.3	3417.6	3365.8	3190.0	3052.7
55°	2953.1	2965.6	3113.0	3344.8	3612.7	3748.3	3742.4	3588.4	3550.7	3359.9	3229.3
57.5°	2729.6	2757.2	2903.7	3154.0	3539.0	3827.8	3851.2	3744.1	3704.8	3526.5	3404.3
60°	2329.5	2366.3	2535.4	2860.2	3303.0	3801.0	3967.6	3875.5	3851.2	3681.3	3562.5
62.5°	1692.5	1719.3	1944.5	2370.5	2953.1	3610.2	4065.5	4011.1	3992.7	3820.3	3705.6
65°	1013.7	1074.8	1255.6	1676.6	2382.2	3250.2	4012.0	4188.6	4169.3	3963.4	3827.8
67.5°	513.1	540.7	611.9	909.0	1602.1	2689.4	3743.3	4299.1	4322.5	4085.6	3871.3
70°	318.1	325.6	345.7	448.7	800.2	1767.0	3061.1	4011.1	4125.8	4066.4	3758.3
72.5°	255.3	257.0	260.3	279.6	384.2	826.2	1935.2	3141.4	3348.2	3797.7	3596.8
75°	211.8	212.6	213.4	219.3	239.4	337.3	941.7	2158.7	2400.6	3227.6	3334.8
77.5°	169.9	165.7	169.1	171.6	176.6	188.3	324.8	1151.8	1397.0	2118.6	2578.9
80°	110.5	108.8	115.5	118.0	123.0	130.6	173.3	390.9	474.6	770.9	820.3
82.5°	59.4	56.1	70.3	67.8	70.3	76.2	102.1	143.1	160.7	232.7	196.7
85°	18.4	18.4	19.3	22.6	27.6	26.8	44.4	70.3	77.8	99.6	73.7
87.5°	3.3	3.3	3.3	3.3	3.3	4.2	9.2	14.2	19.3	34.3	25.9
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°	1217.1	1217.1	1217.1	1217.1	1217.1	1217.1	1217.1	1217.1	1217.1	1217.1	1217.1
2.5°	1233.8	1226.3	1230.5	1233.0	1232.1	1230.5	1222.1	1220.4	1216.2	1209.5	1207.9
5°	1270.6	1262.3	1263.1	1260.6	1252.2	1241.3	1222.9	1213.7	1206.2	1197.8	1197.0
7.5°	1328.4	1319.2	1316.7	1305.0	1281.5	1256.4	1227.1	1210.4	1197.8	1186.9	1185.3
10°	1402.0	1392.8	1384.5	1356.8	1318.3	1284.9	1246.4	1222.1	1203.7	1190.3	1187.8
12.5°	1484.1	1476.5	1455.6	1415.4	1369.4	1330.1	1290.7	1260.6	1233.8	1213.7	1211.2
15°	1575.3	1558.6	1526.8	1474.9	1431.3	1399.5	1351.8	1310.8	1268.1	1241.3	1235.5
17.5°	1638.9	1624.7	1587.0	1536.8	1502.5	1474.9	1418.8	1360.2	1302.4	1263.1	1254.7
20°	1684.1	1669.1	1626.4	1589.5	1578.7	1555.2	1489.9	1422.1	1355.2	1306.6	1295.7
22.5°	1716.8	1700.9	1657.3	1638.9	1654.0	1649.8	1586.2	1509.2	1429.7	1371.9	1358.5
25°	1747.7	1732.7	1694.2	1700.9	1741.1	1753.6	1685.0	1595.4	1505.0	1437.2	1421.3
27.5°	1777.0	1757.8	1740.2	1777.0	1834.0	1857.4	1784.6	1683.3	1585.4	1515.9	1503.3
30°	1822.2	1799.6	1797.1	1850.7	1941.1	1961.2	1880.8	1779.6	1682.5	1612.1	1596.2
32.5°	1879.2	1858.2	1859.9	1940.3	2044.9	2061.6	1993.0	1898.4	1801.3	1731.0	1709.2
35°	1956.2	1930.2	1944.5	2043.2	2148.7	2179.7	2124.4	2045.7	1951.1	1879.2	1854.9
37.5°	2062.5	2024.8	2054.1	2157.9	2264.2	2310.2	2267.6	2209.0	2115.2	2042.4	2019.8
40°	2198.1	2167.1	2178.8	2293.5	2403.2	2458.4	2431.6	2373.9	2280.9	2204.8	2178.8
42.5°	2358.8	2327.8	2323.6	2445.8	2555.5	2639.2	2613.3	2560.5	2464.3	2377.2	2352.1
45°	2516.2	2487.7	2493.6	2618.3	2741.3	2832.6	2806.6	2744.7	2640.0	2539.6	2519.5
47.5°	2680.2	2656.8	2661.8	2794.1	2929.7	3020.9	2988.2	2912.9	2790.7	2683.6	2659.3
50°	2848.5	2821.7	2829.2	2968.2	3114.6	3200.9	3150.6	3039.3	2904.5	2799.9	2779.0
52.5°	3015.9	2984.1	3003.3	3134.7	3286.2	3354.9	3262.0	3127.2	2996.6	2892.8	2869.4
55°	3208.4	3174.9	3154.0	3294.6	3444.4	3472.9	3345.7	3188.3	3033.4	2915.4	2901.2
57.5°	3384.2	3355.7	3316.4	3457.0	3567.5	3546.6	3410.1	3171.6	2943.9	2792.4	2772.3
60°	3541.5	3517.3	3482.9	3602.6	3652.9	3606.0	3358.2	2973.2	2722.9	2564.7	2555.5
62.5°	3686.3	3660.4	3628.6	3730.7	3724.0	3615.2	3122.2	2668.5	2333.7	2163.8	2148.7
65°	3801.0	3777.6	3768.4	3848.7	3837.8	3435.2	2754.7	2169.6	1705.1	1513.4	1507.5
67.5°	3833.7	3824.5	3873.8	4010.3	3840.4	3073.6	2160.4	1438.9	915.7	734.1	723.2
70°	3711.5	3710.6	3852.1	4047.1	3492.1	2347.9	1274.8	648.7	460.4	408.5	401.8
72.5°	3552.4	3549.9	3662.1	3491.3	2589.8	1284.9	536.5	347.4	287.9	273.7	273.7
75°	3291.3	3284.6	3369.1	2655.9	1456.5	483.8	284.6	238.6	226.0	223.5	223.5
77.5°	2682.7	2626.6	2493.6	1641.4	508.1	237.7	188.3	187.5	180.0	179.1	179.1
80°	882.2	882.2	1025.4	626.1	224.3	146.5	133.1	139.8	132.3	127.2	126.4
82.5°	144.0	198.4	282.1	179.1	121.4	91.2	82.0	87.1	91.2	72.8	72.8
85°	56.9	74.5	108.8	83.7	56.1	36.8	39.3	43.5	38.5	33.5	32.6
87.5°	21.8	26.8	38.5	20.1	11.7	6.7	4.2	4.2	3.3	3.3	3.3
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)