

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: P632858

Luminaire Tested: GWS-SA2D-750-U-RW-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632858
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-750-U-RW-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: (32) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12295.1 lumens
Efficiency: N/A
Efficacy: 149.8 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

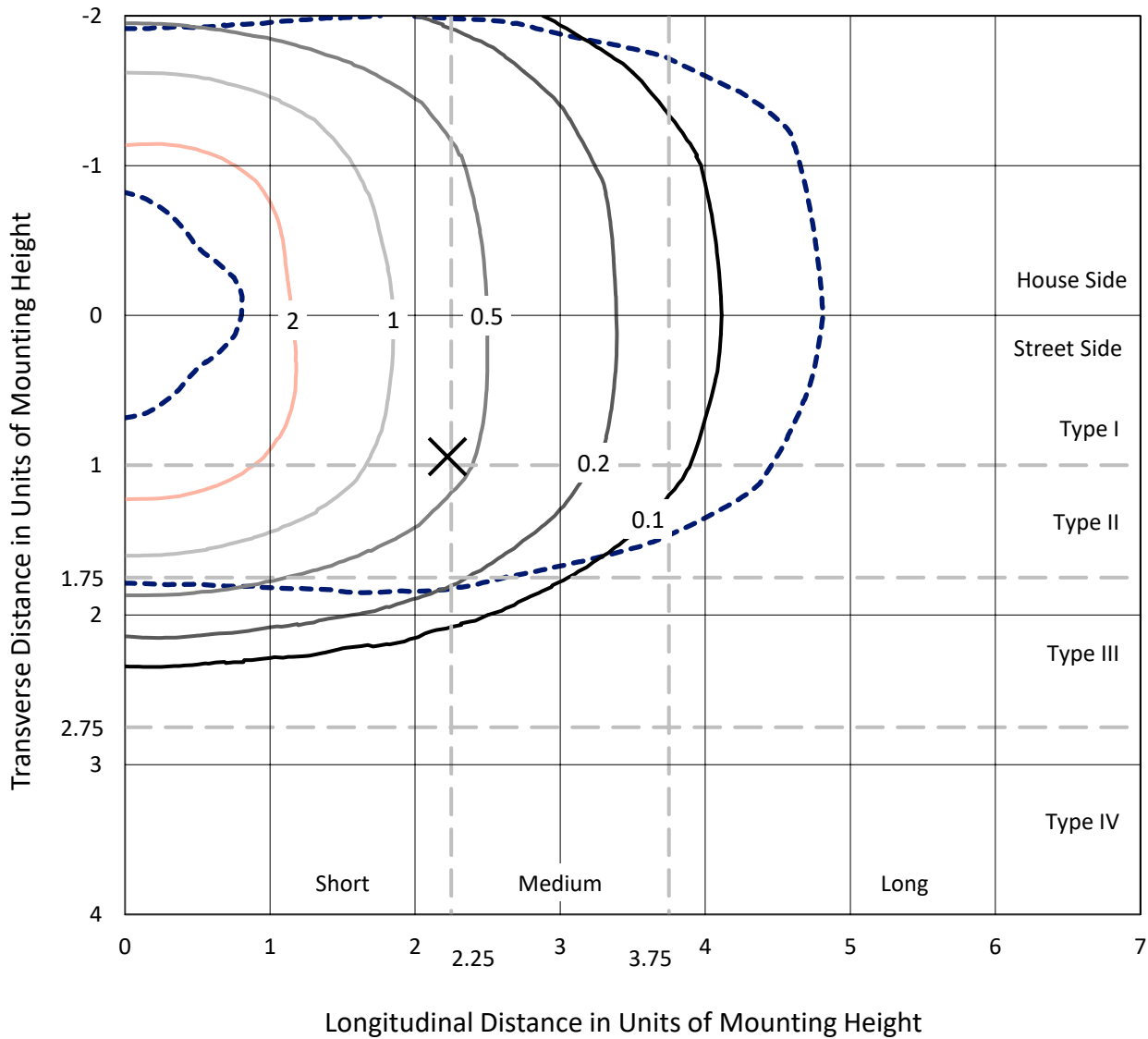


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Iso-Footcandle Lines of Horizontal Illumination

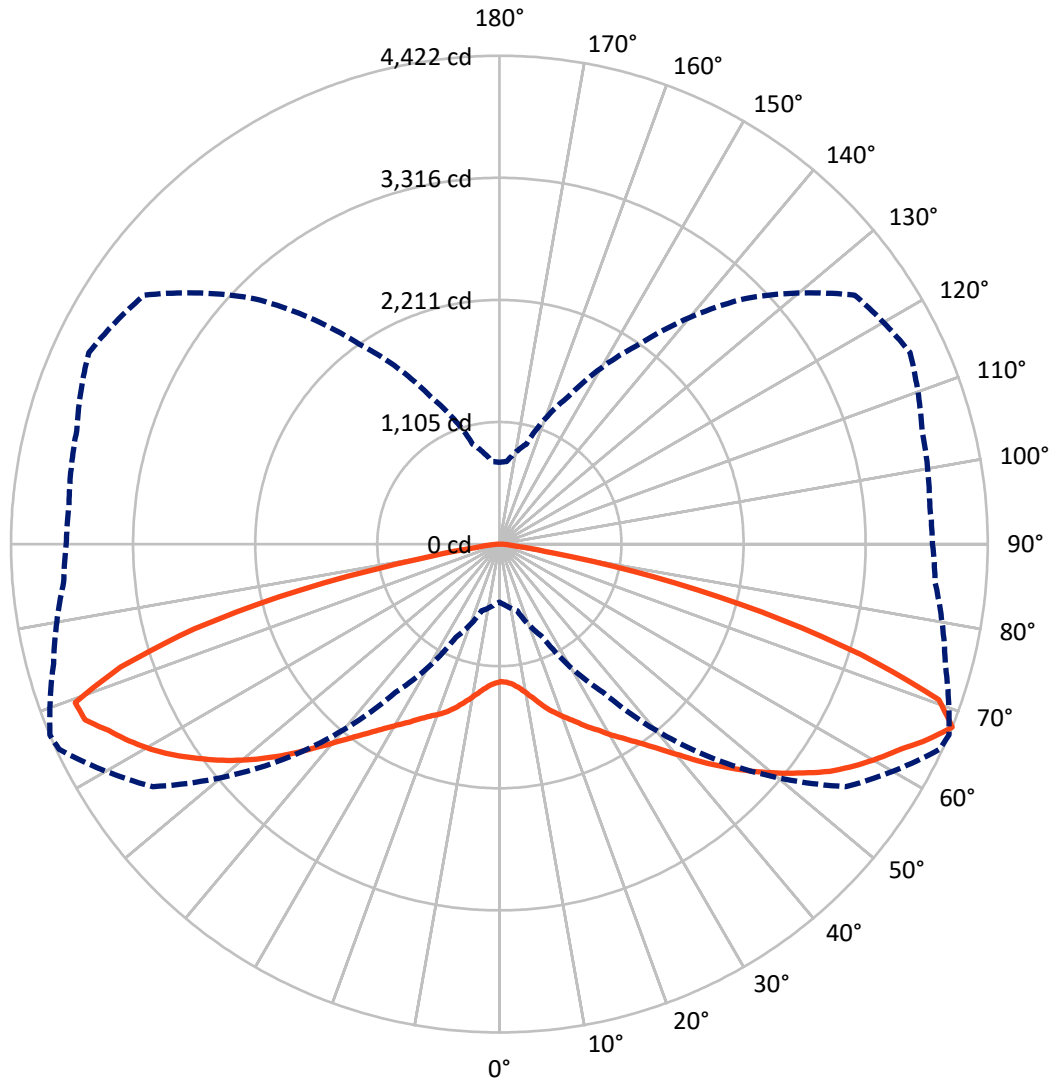
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.6 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	6079.7	0.0	6079.7
	% Fixture	49.4	0.0	49.4
Street Side	Lumens	6215.4	0.0	6215.4
	% Fixture	50.6	0.0	50.6
Total	Lumens	12295.1	0.0	12295.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.1	1.0
10°-20°	412.7	3.4
20°-30°	809.6	6.6
30°-40°	1379.3	11.2
40°-50°	2214.9	18.0
50°-60°	3009.6	24.5
60°-70°	2878.9	23.4
70°-80°	1368.7	11.1
80°-90°	99.2	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°	12295.1	100.0
0°-180°	12295.1	100.0

Coefficient of Utilization



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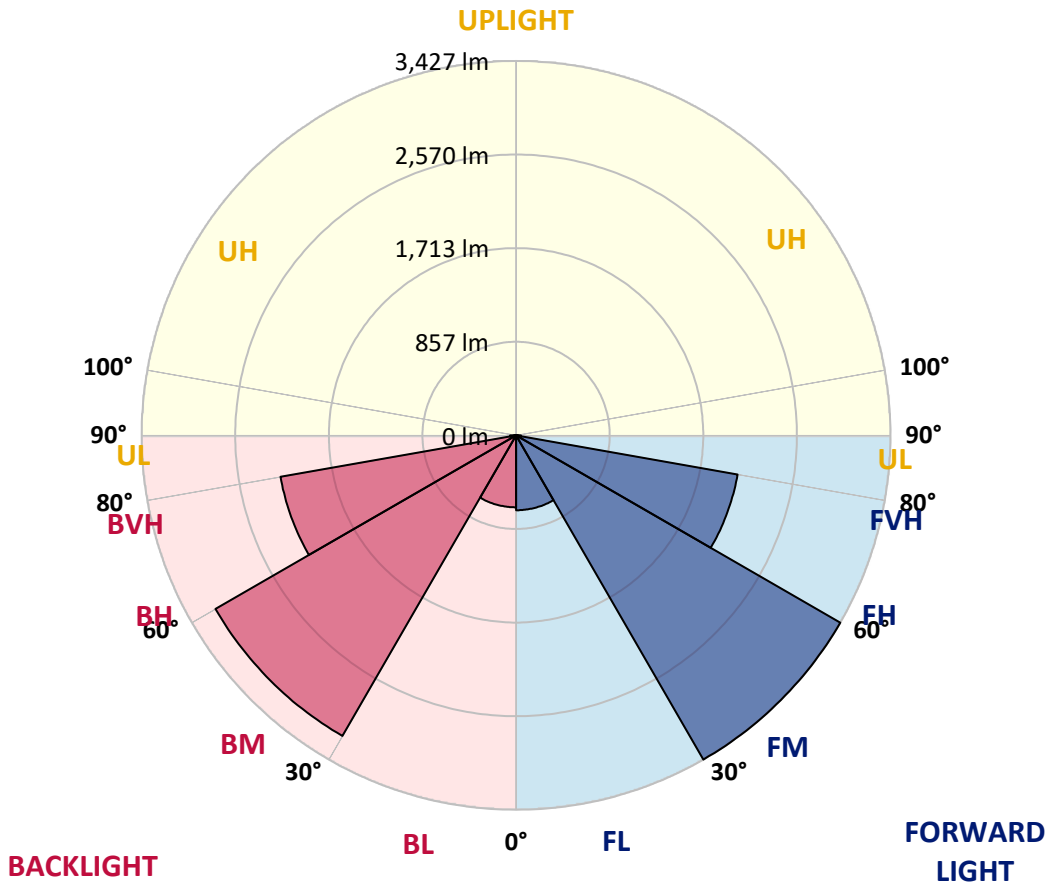
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	685.5	5.6			
FM (30°-60°)	3426.8	27.9			
FH (60°-80°)	2058.5	16.7			G2/5000
FVH (80°-90°)	44.6	0.4			G1/100
BL (0°-30°)	658.9	5.4	B2/1000		
BM (30°-60°)	3177.1	25.8	B3/5000		
BH (60°-80°)	2189.1	17.8	B3/2500		G3/2500
BVH (80°-90°)	54.6	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°	1244.9	1244.9	1244.9	1244.9	1244.9	1244.9	1244.9	1244.9	1244.9	1244.9	1244.9
2.5°	1219.3	1221.0	1223.5	1228.7	1233.8	1241.5	1249.2	1248.4	1251.8	1254.4	1256.9
5°	1212.4	1214.1	1218.4	1225.3	1233.0	1245.8	1262.1	1268.9	1274.1	1283.5	1292.0
7.5°	1227.0	1230.4	1236.4	1245.8	1257.8	1274.1	1296.3	1308.3	1316.0	1333.1	1347.7
10°	1246.7	1250.9	1262.9	1280.9	1298.9	1323.7	1352.0	1370.0	1375.1	1397.4	1424.8
12.5°	1265.5	1270.6	1290.3	1322.9	1355.4	1388.8	1422.2	1444.4	1446.2	1476.1	1507.0
15°	1295.5	1299.7	1326.3	1368.2	1417.9	1464.1	1505.2	1520.7	1527.5	1548.9	1587.4
17.5°	1361.4	1366.5	1400.8	1446.2	1498.4	1547.2	1588.3	1601.1	1601.1	1619.1	1650.8
20°	1432.5	1437.6	1483.0	1541.2	1604.6	1654.2	1685.9	1673.9	1669.6	1674.8	1697.0
22.5°	1512.1	1521.5	1565.2	1632.8	1710.7	1771.5	1787.8	1751.8	1739.8	1727.9	1733.0
25°	1614.0	1625.1	1667.9	1739.8	1816.0	1880.3	1889.7	1834.0	1827.2	1785.2	1769.8
27.5°	1731.3	1739.8	1792.9	1864.0	1935.1	1989.0	1999.3	1930.8	1907.7	1849.4	1813.5
30°	1882.8	1890.5	1936.8	2007.0	2068.6	2106.3	2119.2	2025.0	2007.0	1917.9	1862.3
32.5°	2048.1	2051.5	2098.6	2166.2	2221.0	2257.0	2239.0	2129.4	2102.9	2002.7	1926.5
35°	2237.3	2237.3	2298.1	2352.9	2396.6	2406.8	2372.6	2247.6	2216.8	2108.0	2013.0
37.5°	2423.1	2428.2	2484.8	2549.8	2588.4	2586.6	2524.1	2387.1	2352.0	2233.9	2128.6
40°	2624.3	2635.5	2692.0	2764.7	2801.6	2796.4	2700.5	2548.1	2512.2	2372.6	2269.8
42.5°	2809.3	2827.2	2893.2	2967.7	3007.9	3004.5	2904.3	2733.1	2698.0	2540.4	2437.7
45°	2956.5	2975.4	3057.6	3161.2	3225.4	3219.4	3118.4	2924.9	2882.0	2716.8	2603.8
47.5°	3085.8	3105.5	3197.1	3306.7	3408.6	3418.9	3326.4	3118.4	3073.0	2906.0	2778.4
50°	3185.1	3194.6	3297.3	3417.2	3535.3	3592.7	3512.2	3312.7	3257.9	3092.7	2948.8
52.5°	3177.4	3190.3	3317.0	3479.7	3638.1	3732.3	3676.6	3496.0	3442.9	3263.1	3122.6
55°	3020.8	3033.6	3184.3	3421.5	3695.5	3834.2	3828.2	3670.6	3632.1	3436.9	3303.3
57.5°	2792.1	2820.4	2970.2	3226.2	3620.1	3915.5	3939.5	3829.9	3789.6	3607.3	3482.3
60°	2382.9	2420.5	2593.5	2925.7	3378.7	3888.1	4058.5	3964.3	3939.5	3765.7	3644.1
62.5°	1731.3	1758.7	1989.0	2424.8	3020.8	3692.9	4158.7	4103.0	4084.2	3907.8	3790.5
65°	1036.9	1099.4	1284.3	1715.0	2436.8	3324.7	4103.9	4284.5	4264.8	4054.2	3915.5
67.5°	524.9	553.1	625.9	929.9	1638.8	2751.0	3829.0	4397.6	4421.5	4179.2	3960.0
70°	325.4	333.1	353.6	458.9	818.5	1807.5	3131.2	4103.0	4220.3	4159.5	3844.4
72.5°	261.1	262.9	266.3	286.0	393.0	845.1	1979.6	3213.4	3424.9	3884.7	3679.2
75°	216.6	217.5	218.3	224.3	244.9	345.1	963.3	2208.2	2455.6	3301.6	3411.2
77.5°	173.8	169.5	173.0	175.5	180.7	192.7	332.2	1178.2	1429.0	2167.1	2638.0
80°	113.0	111.3	118.2	120.7	125.9	133.6	177.2	399.9	485.5	788.6	839.1
82.5°	60.8	57.4	71.9	69.4	71.9	77.9	104.5	146.4	164.4	238.0	201.2
85°	18.8	18.8	19.7	23.1	28.3	27.4	45.4	71.9	79.6	101.9	75.3
87.5°	3.4	3.4	3.4	3.4	3.4	4.3	9.4	14.6	19.7	35.1	26.5
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°	1244.9	1244.9	1244.9	1244.9	1244.9	1244.9	1244.9	1244.9	1244.9	1244.9	1244.9
2.5°	1262.1	1254.4	1258.6	1261.2	1260.4	1258.6	1250.1	1248.4	1244.1	1237.2	1235.5
5°	1299.7	1291.2	1292.0	1289.5	1280.9	1269.8	1250.9	1241.5	1233.8	1225.3	1224.4
7.5°	1358.8	1349.4	1346.8	1334.9	1310.9	1285.2	1255.2	1238.1	1225.3	1214.1	1212.4
10°	1434.2	1424.8	1416.2	1387.9	1348.6	1314.3	1274.9	1250.1	1231.2	1217.5	1215.0
12.5°	1518.1	1510.4	1489.0	1447.9	1400.8	1360.5	1320.3	1289.5	1262.1	1241.5	1239.0
15°	1611.4	1594.3	1561.7	1508.7	1464.1	1431.6	1382.8	1340.8	1297.2	1269.8	1263.8
17.5°	1676.5	1661.9	1623.4	1572.0	1536.9	1508.7	1451.3	1391.4	1332.3	1292.0	1283.5
20°	1722.7	1707.3	1663.6	1626.0	1614.8	1590.9	1524.1	1454.7	1386.2	1336.6	1325.4
22.5°	1756.1	1739.8	1695.3	1676.5	1691.9	1687.6	1622.5	1543.8	1462.4	1403.3	1389.6
25°	1787.8	1772.4	1733.0	1739.8	1780.9	1793.8	1723.6	1632.0	1539.5	1470.1	1453.9
27.5°	1817.8	1798.1	1780.1	1817.8	1876.0	1900.0	1825.5	1721.9	1621.7	1550.6	1537.8
30°	1864.0	1840.9	1838.3	1893.1	1985.6	2006.1	1923.9	1820.3	1721.0	1649.1	1632.8
32.5°	1922.2	1900.8	1902.5	1984.7	2091.8	2108.9	2038.7	1941.9	1842.6	1770.7	1748.4
35°	2001.0	1974.4	1989.0	2090.0	2197.9	2229.6	2173.1	2092.6	1995.9	1922.2	1897.4
37.5°	2109.7	2071.2	2101.2	2207.3	2316.1	2363.2	2319.5	2259.6	2163.7	2089.2	2066.1
40°	2248.4	2216.8	2228.7	2346.0	2458.2	2514.7	2487.3	2428.2	2333.2	2255.3	2228.7
42.5°	2412.8	2381.2	2376.9	2501.9	2614.0	2699.7	2673.1	2619.2	2520.7	2431.7	2406.0
45°	2573.8	2544.7	2550.7	2678.3	2804.1	2897.5	2870.9	2807.6	2700.5	2597.8	2577.2
47.5°	2741.6	2717.6	2722.8	2858.1	2996.8	3090.1	3056.7	2979.7	2854.6	2745.0	2720.2
50°	2913.7	2886.3	2894.0	3036.2	3186.0	3274.2	3222.8	3108.9	2971.1	2864.1	2842.7
52.5°	3085.0	3052.4	3072.1	3206.6	3361.5	3431.7	3336.7	3198.8	3065.3	2959.1	2935.1
55°	3281.9	3247.7	3226.2	3370.1	3523.4	3552.5	3422.3	3261.4	3103.0	2982.2	2967.7
57.5°	3461.7	3432.6	3392.4	3536.2	3649.2	3627.8	3488.3	3244.2	3011.3	2856.4	2835.8
60°	3622.7	3597.8	3562.7	3685.2	3736.6	3688.6	3435.2	3041.3	2785.3	2623.5	2614.0
62.5°	3770.8	3744.3	3711.7	3816.2	3809.3	3698.0	3193.7	2729.6	2387.1	2213.3	2197.9
65°	3888.1	3864.1	3854.7	3936.9	3925.8	3513.9	2817.8	2219.3	1744.1	1548.1	1542.1
67.5°	3921.5	3912.1	3962.6	4102.2	3928.3	3144.0	2209.9	1471.8	936.7	750.9	739.8
70°	3796.5	3795.6	3940.3	4139.8	3572.2	2401.7	1304.0	663.6	470.9	417.8	411.0
72.5°	3633.8	3631.2	3746.0	3571.3	2649.2	1314.3	548.8	355.3	294.5	280.0	280.0
75°	3366.7	3359.8	3446.3	2716.8	1489.8	494.9	291.1	244.0	231.2	228.6	228.6
77.5°	2744.2	2686.8	2550.7	1679.1	519.7	243.2	192.7	191.8	184.1	183.2	183.2
80°	902.5	902.5	1048.9	640.5	229.5	149.8	136.1	143.0	135.3	130.1	129.3
82.5°	147.3	202.9	288.5	183.2	124.2	93.3	83.9	89.0	93.3	74.5	74.5
85°	58.2	76.2	111.3	85.6	57.4	37.7	40.2	44.5	39.4	34.2	33.4
87.5°	22.3	27.4	39.4	20.5	12.0	6.8	4.3	4.3	3.4	3.4	3.4
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)