

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: P632748

Luminaire Tested: GWS-SA2D-735-U-RW-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632748
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-735-U-RW-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11855 lumens
Efficiency: N/A
Efficacy: 144.4 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

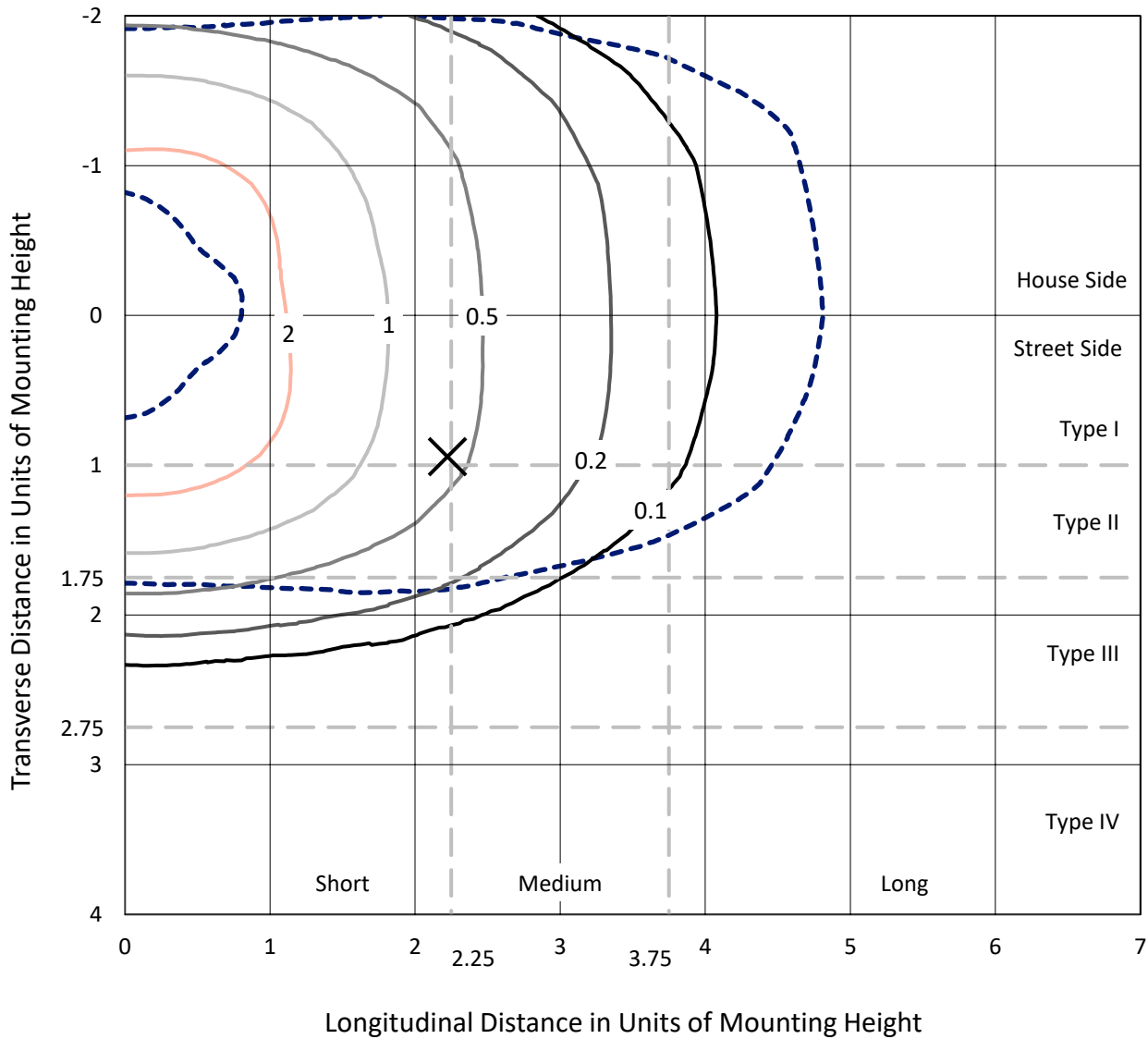


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Iso-Footcandle Lines of Horizontal Illumination

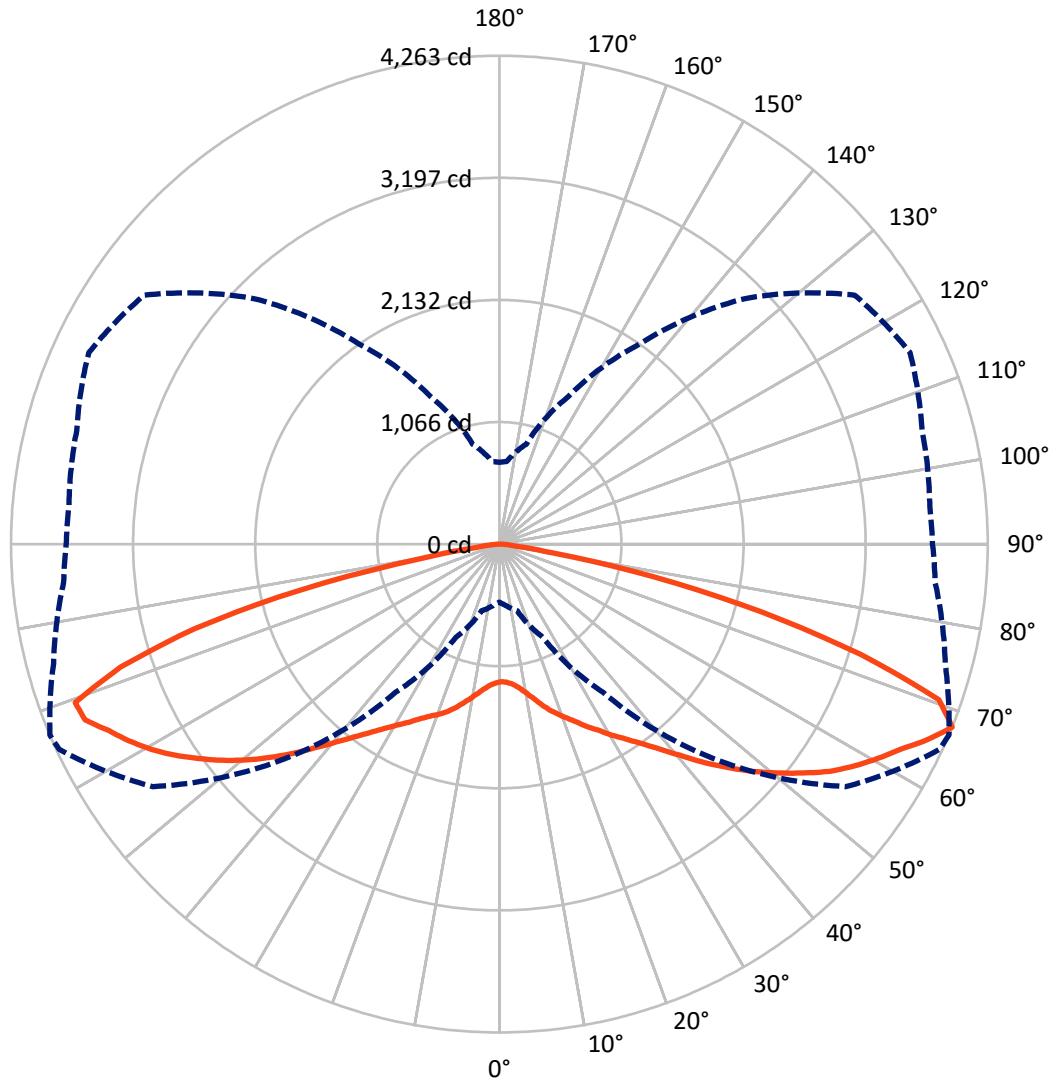
✕ Max cd
 - - - 1/2 Max cd



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	5862.1	0.0	5862.1
	% Fixture	49.4	0.0	49.4
Street Side	Lumens	5992.9	0.0	5992.9
	% Fixture	50.6	0.0	50.6
Total	Lumens	11855.0	0.0	11855.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.8	1.0
10°-20°	397.9	3.4
20°-30°	780.6	6.6
30°-40°	1330.0	11.2
40°-50°	2135.6	18.0
50°-60°	2901.9	24.5
60°-70°	2775.9	23.4
70°-80°	1319.7	11.1
80°-90°	95.6	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°	11855.0	100.0
0°-180°	11855.0	100.0

Coefficient of Utilization



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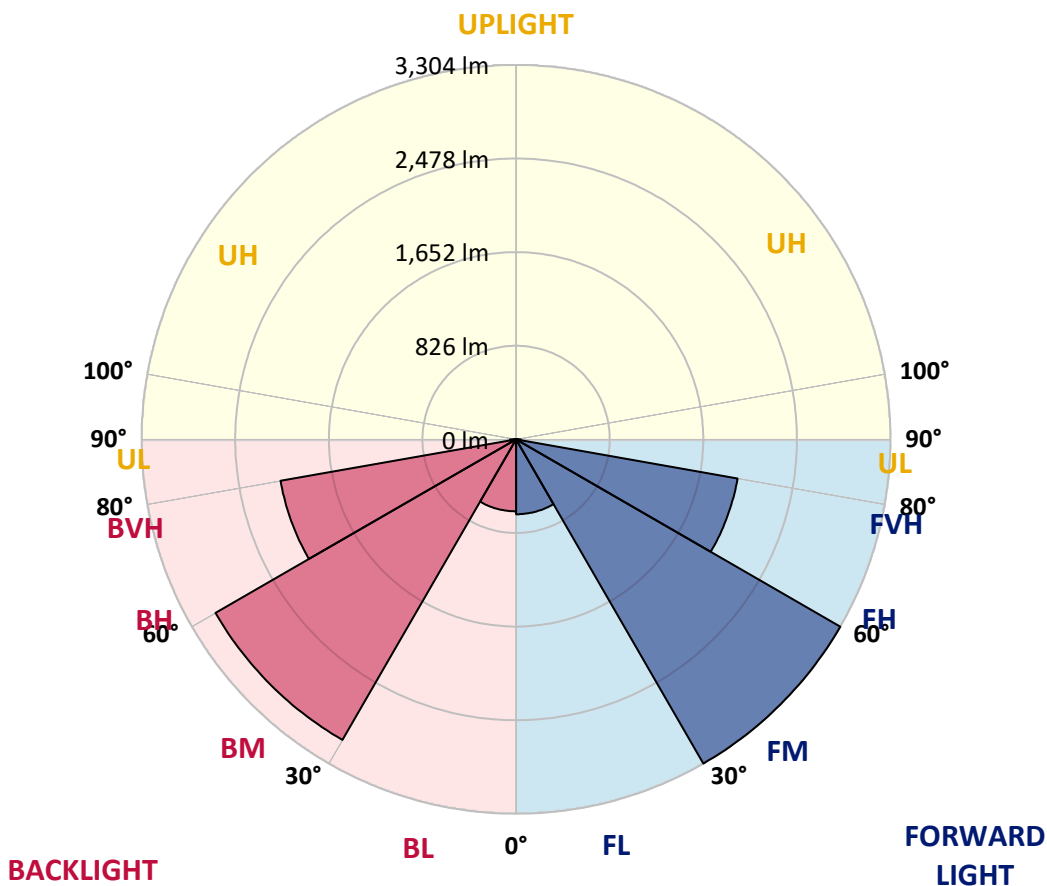
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	661.0	5.6			
FM (30°-60°)	3304.1	27.9			
FH (60°-80°)	1984.8	16.7			G2/5000
FVH (80°-90°)	43.0	0.4			G1/100
BL (0°-30°)	635.3	5.4	B2/1000		
BM (30°-60°)	3063.4	25.8	B3/5000		
BH (60°-80°)	2110.8	17.8	B3/2500		G3/2500
BVH (80°-90°)	52.7	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°	1200.4	1200.4	1200.4	1200.4	1200.4	1200.4	1200.4	1200.4	1200.4	1200.4	1200.4
2.5°	1175.6	1177.3	1179.7	1184.7	1189.7	1197.1	1204.5	1203.7	1207.0	1209.5	1211.9
5°	1169.0	1170.7	1174.8	1181.4	1188.8	1201.2	1216.9	1223.5	1228.5	1237.5	1245.8
7.5°	1183.0	1186.4	1192.1	1201.2	1212.8	1228.5	1249.9	1261.5	1268.9	1285.4	1299.5
10°	1202.0	1206.2	1217.7	1235.1	1252.4	1276.3	1303.6	1320.9	1325.9	1347.3	1373.8
12.5°	1220.2	1225.2	1244.1	1275.5	1306.9	1339.1	1371.3	1392.7	1394.4	1423.3	1453.0
15°	1249.1	1253.2	1278.8	1319.3	1367.2	1411.7	1451.4	1466.2	1472.8	1493.5	1530.6
17.5°	1312.7	1317.6	1350.6	1394.4	1444.8	1491.8	1531.4	1543.8	1543.8	1561.2	1591.7
20°	1381.2	1386.1	1429.9	1486.0	1547.1	1595.0	1625.6	1614.0	1609.9	1614.8	1636.3
22.5°	1458.0	1467.0	1509.1	1574.4	1649.5	1708.1	1723.8	1689.1	1677.6	1666.0	1671.0
25°	1556.2	1566.9	1608.2	1677.6	1751.0	1813.0	1822.0	1768.4	1761.8	1721.3	1706.5
27.5°	1669.3	1677.6	1728.8	1797.3	1865.8	1917.8	1927.7	1861.7	1839.4	1783.2	1748.6
30°	1815.4	1822.9	1867.4	1935.1	1994.6	2030.9	2043.3	1952.5	1935.1	1849.3	1795.6
32.5°	1974.8	1978.1	2023.5	2088.7	2141.5	2176.2	2158.9	2053.2	2027.6	1931.0	1857.5
35°	2157.2	2157.2	2215.8	2268.7	2310.8	2320.7	2287.7	2167.1	2137.4	2032.6	1940.9
37.5°	2336.4	2341.3	2395.8	2458.6	2495.7	2494.1	2433.8	2301.7	2267.9	2153.9	2052.4
40°	2530.4	2541.1	2595.6	2665.8	2701.3	2696.3	2603.9	2456.9	2422.2	2287.7	2188.6
42.5°	2708.7	2726.0	2789.6	2861.4	2900.2	2896.9	2800.3	2635.2	2601.4	2449.5	2350.4
45°	2850.7	2868.9	2948.1	3048.0	3109.9	3104.2	3006.7	2820.2	2778.9	2619.5	2510.6
47.5°	2975.4	2994.4	3082.7	3188.4	3286.6	3296.5	3207.4	3006.7	2963.0	2802.0	2679.0
50°	3071.1	3080.2	3179.3	3294.9	3408.8	3464.1	3386.5	3194.1	3141.3	2982.0	2843.3
52.5°	3063.7	3076.1	3198.3	3355.1	3507.9	3598.7	3545.0	3370.8	3319.6	3146.3	3010.9
55°	2912.6	2925.0	3070.3	3299.0	3563.2	3696.9	3691.1	3539.2	3502.1	3313.9	3185.1
57.5°	2692.2	2719.4	2863.9	3110.8	3490.5	3775.4	3798.5	3692.8	3654.0	3478.1	3357.6
60°	2297.6	2333.9	2500.7	2821.0	3257.7	3748.9	3913.2	3822.4	3798.5	3630.9	3513.6
62.5°	1669.3	1695.7	1917.8	2338.0	2912.6	3560.7	4009.8	3956.2	3938.0	3767.9	3654.8
65°	999.8	1060.0	1238.4	1653.6	2349.6	3205.7	3957.0	4131.2	4112.2	3909.1	3775.4
67.5°	506.1	533.3	603.5	896.6	1580.1	2652.6	3692.0	4240.1	4263.3	4029.6	3818.3
70°	313.7	321.1	341.0	442.5	789.2	1742.8	3019.1	3956.2	4069.3	4010.6	3706.8
72.5°	251.8	253.5	256.8	275.7	378.9	814.8	1908.7	3098.4	3302.3	3745.6	3547.5
75°	208.9	209.7	210.5	216.3	236.1	332.7	928.8	2129.2	2367.7	3183.4	3289.1
77.5°	167.6	163.5	166.8	169.2	174.2	185.8	320.3	1136.0	1377.9	2089.5	2543.6
80°	109.0	107.3	113.9	116.4	121.4	128.8	170.9	385.5	468.1	760.4	809.1
82.5°	58.6	55.3	69.3	66.9	69.3	75.1	100.7	141.2	158.5	229.5	194.0
85°	18.2	18.2	19.0	22.3	27.2	26.4	43.8	69.3	76.8	98.2	72.7
87.5°	3.3	3.3	3.3	3.3	3.3	4.1	9.1	14.0	19.0	33.8	25.6
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°	1200.4	1200.4	1200.4	1200.4	1200.4	1200.4	1200.4	1200.4	1200.4	1200.4	1200.4
2.5°	1216.9	1209.5	1213.6	1216.1	1215.2	1213.6	1205.3	1203.7	1199.6	1193.0	1191.3
5°	1253.2	1245.0	1245.8	1243.3	1235.1	1224.3	1206.2	1197.1	1189.7	1181.4	1180.6
7.5°	1310.2	1301.1	1298.6	1287.1	1264.0	1239.2	1210.3	1193.8	1181.4	1170.7	1169.0
10°	1382.8	1373.8	1365.5	1338.3	1300.3	1267.3	1229.3	1205.3	1187.2	1174.0	1171.5
12.5°	1463.7	1456.3	1435.7	1396.0	1350.6	1311.8	1273.0	1243.3	1216.9	1197.1	1194.6
15°	1553.7	1537.2	1505.8	1454.7	1411.7	1380.4	1333.3	1292.8	1250.7	1224.3	1218.5
17.5°	1616.5	1602.4	1565.3	1515.8	1481.9	1454.7	1399.3	1341.6	1284.6	1245.8	1237.5
20°	1661.1	1646.2	1604.1	1567.8	1557.0	1533.9	1469.5	1402.7	1336.6	1288.7	1278.0
22.5°	1693.3	1677.6	1634.6	1616.5	1631.3	1627.2	1564.5	1488.5	1410.1	1353.1	1339.9
25°	1723.8	1708.9	1671.0	1677.6	1717.2	1729.6	1661.9	1573.5	1484.4	1417.5	1401.8
27.5°	1752.7	1733.7	1716.4	1752.7	1808.8	1831.9	1760.1	1660.2	1563.6	1495.1	1482.7
30°	1797.3	1775.0	1772.5	1825.3	1914.5	1934.3	1855.1	1755.2	1659.4	1590.1	1574.4
32.5°	1853.4	1832.8	1834.4	1913.7	2016.9	2033.4	1965.7	1872.4	1776.6	1707.3	1685.8
35°	1929.4	1903.8	1917.8	2015.2	2119.2	2149.8	2095.3	2017.7	1924.4	1853.4	1829.5
37.5°	2034.2	1997.1	2026.0	2128.3	2233.2	2278.6	2236.5	2178.7	2086.2	2014.4	1992.1
40°	2168.0	2137.4	2149.0	2262.1	2370.2	2424.7	2398.3	2341.3	2249.7	2174.6	2149.0
42.5°	2326.5	2295.9	2291.8	2412.3	2520.5	2603.0	2577.4	2525.4	2430.5	2344.6	2319.9
45°	2481.7	2453.6	2459.4	2582.4	2703.8	2793.7	2768.2	2707.1	2603.9	2504.8	2485.0
47.5°	2643.5	2620.4	2625.3	2755.8	2889.5	2979.5	2947.3	2873.0	2752.5	2646.8	2622.8
50°	2809.4	2783.0	2790.4	2927.5	3072.0	3157.0	3107.5	2997.7	2864.7	2761.5	2740.9
52.5°	2974.5	2943.2	2962.2	3091.8	3241.2	3308.9	3217.3	3084.3	2955.6	2853.2	2830.1
55°	3164.4	3131.4	3110.8	3249.5	3397.2	3425.3	3299.8	3144.6	2991.9	2875.5	2861.4
57.5°	3337.8	3309.7	3270.9	3409.6	3518.6	3498.0	3363.4	3128.1	2903.5	2754.1	2734.3
60°	3493.0	3469.1	3435.2	3553.3	3602.8	3556.6	3312.2	2932.4	2685.6	2529.6	2520.5
62.5°	3635.8	3610.2	3578.9	3679.6	3673.0	3565.7	3079.4	2631.9	2301.7	2134.1	2119.2
65°	3748.9	3725.8	3716.7	3796.0	3785.3	3388.2	2717.0	2139.9	1681.7	1492.6	1486.9
67.5°	3781.1	3772.0	3820.8	3955.3	3787.7	3031.5	2130.8	1419.2	903.2	724.0	713.3
70°	3660.6	3659.8	3799.3	3991.7	3444.3	2315.7	1257.3	639.8	454.1	402.9	396.3
72.5°	3503.7	3501.3	3611.9	3443.5	2554.3	1267.3	529.2	342.6	284.0	270.0	270.0
75°	3246.2	3239.6	3322.9	2619.5	1436.5	477.2	280.7	235.3	222.9	220.4	220.4
77.5°	2646.0	2590.7	2459.4	1619.0	501.1	234.5	185.8	184.9	177.5	176.7	176.7
80°	870.2	870.2	1011.3	617.5	221.3	144.5	131.3	137.9	130.4	125.5	124.7
82.5°	142.0	195.7	278.2	176.7	119.7	90.0	80.9	85.9	90.0	71.8	71.8
85°	56.1	73.5	107.3	82.6	55.3	36.3	38.8	42.9	38.0	33.0	32.2
87.5°	21.5	26.4	38.0	19.8	11.6	6.6	4.1	4.1	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)