

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: P636733

Luminaire Tested: GWS-SA4B-735-U-T2R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636733
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-13)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4B-735-U-T2R-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12564.3 lumens
Efficiency: N/A
Efficacy: 133.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

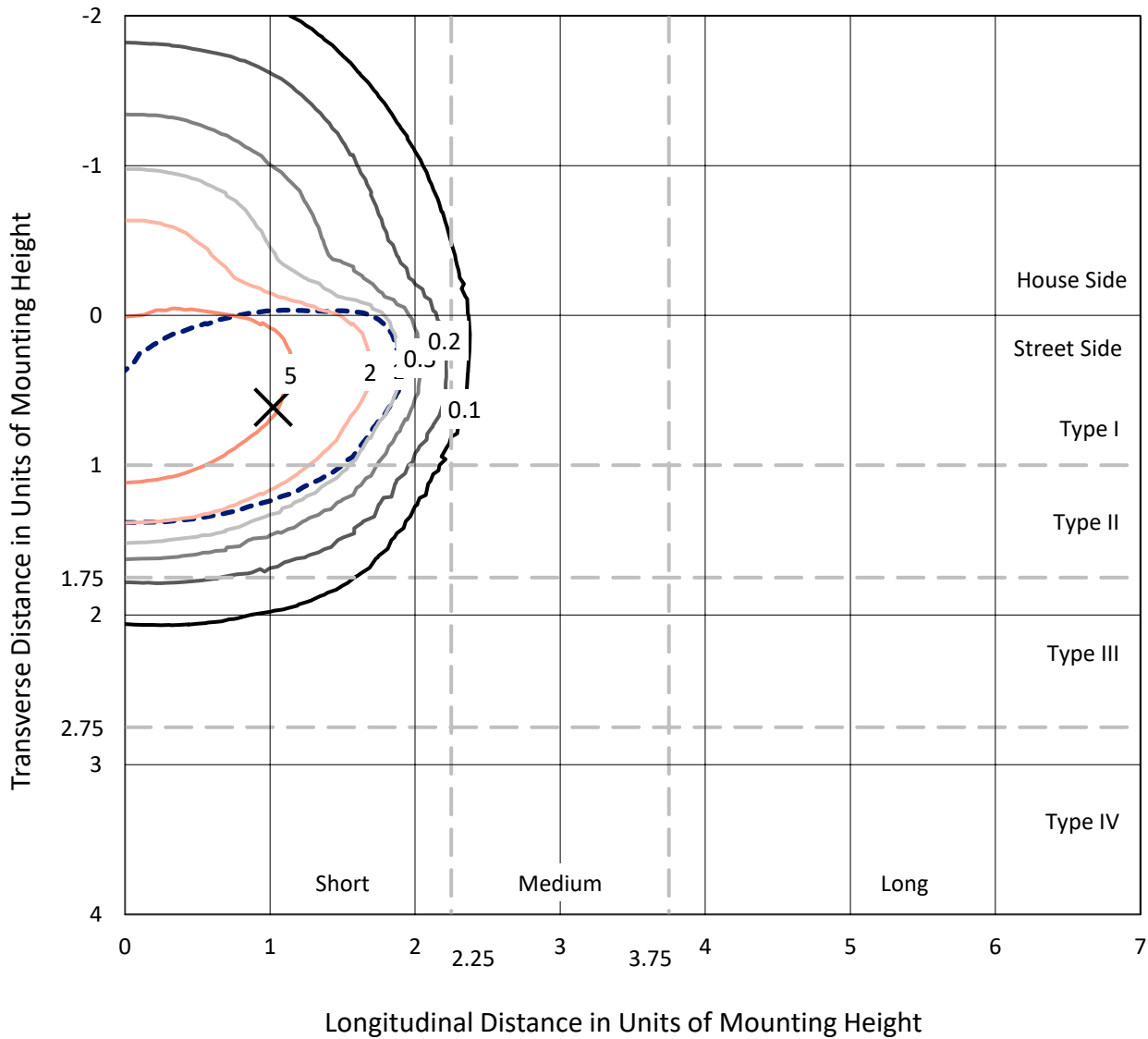
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P636733
 CATALOG NUMBER: GWS-SA4B-735-U-T2R-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

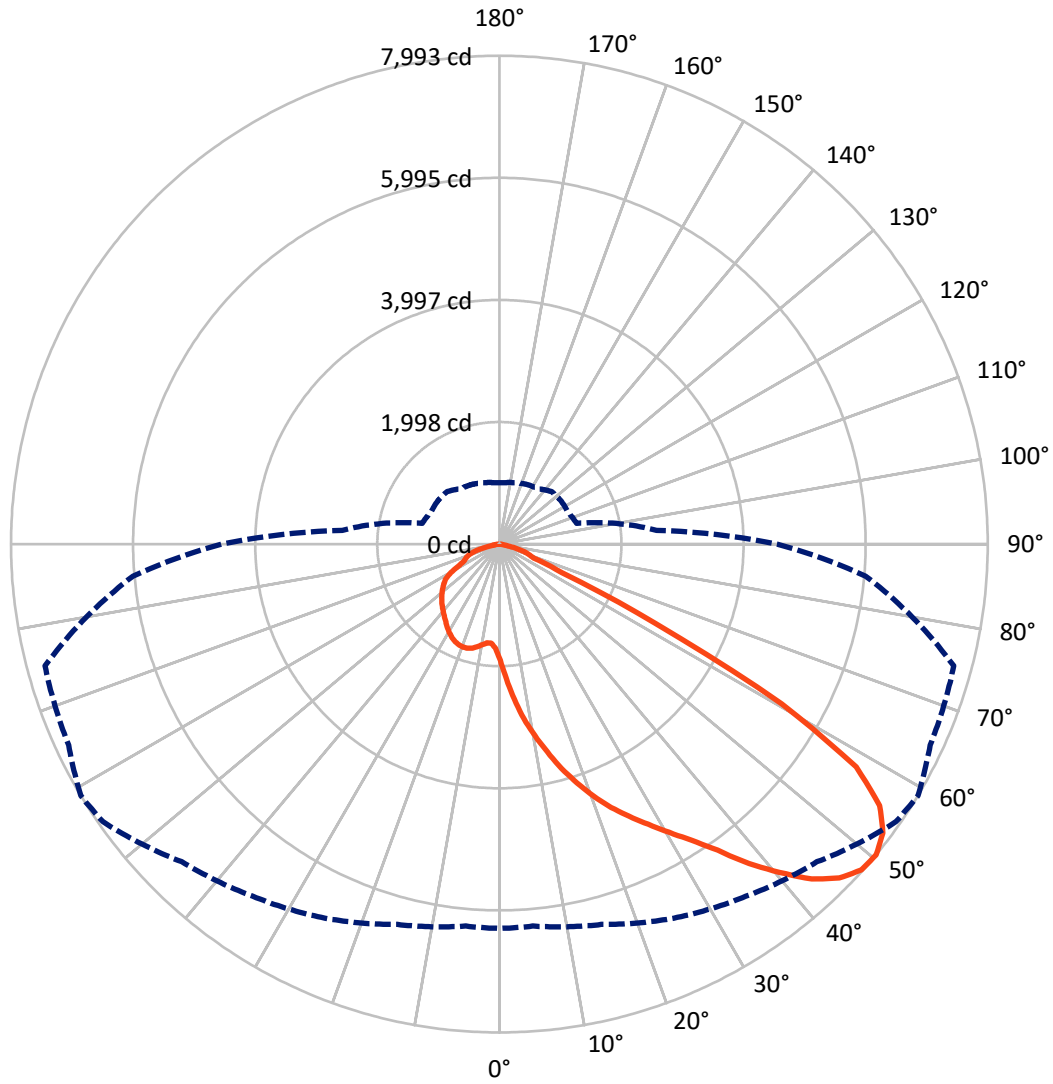
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9.4 fc
 Type II - Short - N/A

REPORT NUMBER: P636733
CATALOG NUMBER: GWS-SA4B-735-U-T2R-W-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

REPORT NUMBER: P636733

CATALOG NUMBER: GWS-SA4B-735-U-T2R-W-GRSWH

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2890.0	0.0	2890.0
	% Fixture	23.0	0.0	23.0
Street Side	Lumens	9674.3	0.0	9674.3
	% Fixture	77.0	0.0	77.0
Total	Lumens	12564.3	0.0	12564.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	213.5	1.7
10°-20°	775.2	6.2
20°-30°	1467.9	11.7
30°-40°	2434.3	19.4
40°-50°	3325.4	26.5
50°-60°	3018.6	24.0
60°-70°	1005.2	8.0
70°-80°	293.2	2.3
80°-90°	30.8	0.2
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°	12564.3	100.0
0°-180°	12564.3	100.0

Coefficient of Utilization



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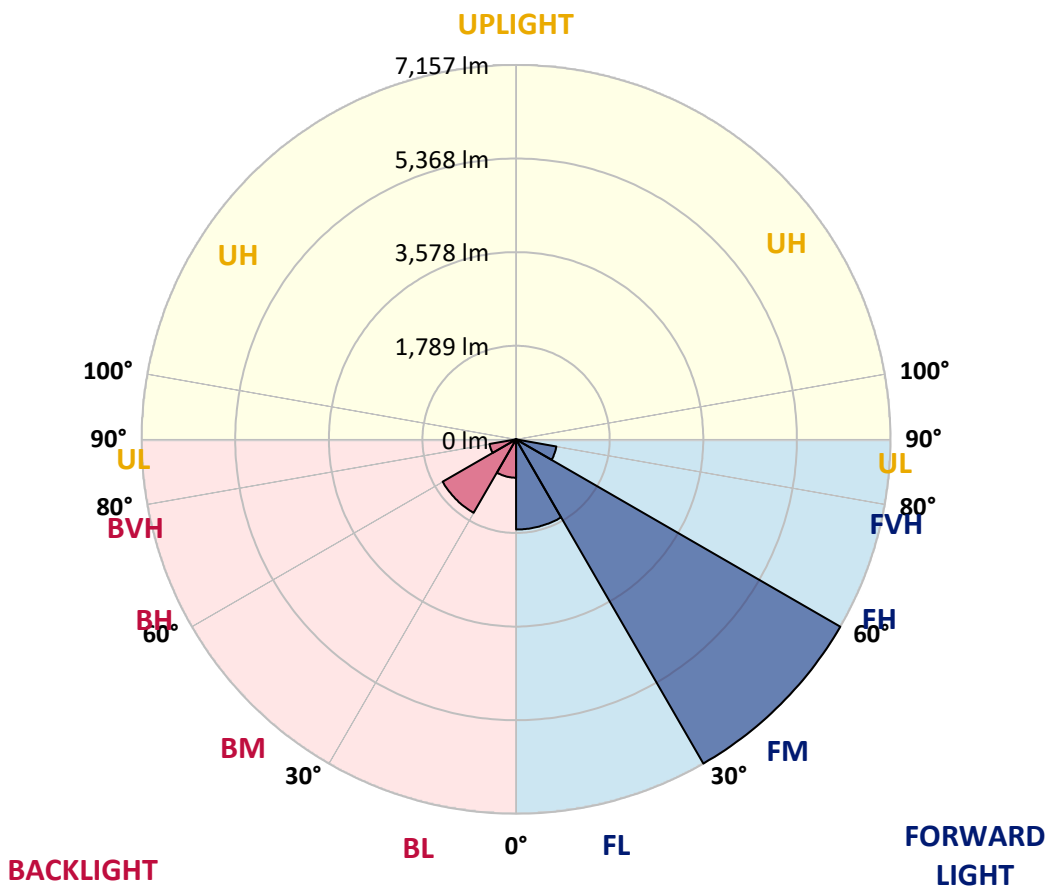
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1722.9	13.7			
FM (30°-60°)	7156.8	57.0			
FH (60°-80°)	782.6	6.2			G1/1800
FVH (80°-90°)	12.0	0.1			G1/100
BL (0°-30°)	733.8	5.8	B2/1000		
BM (30°-60°)	1621.6	12.9	B2/2500		
BH (60°-80°)	515.8	4.1	B2/1000		G2/1000
BVH (80°-90°)	18.8	0.1			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 II Short





REPORT NUMBER: P636733

CATALOG NUMBER: GWS-SA4B-735-U-T2R-W-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	1903.6	1903.6	1903.6	1903.6	1903.6	1903.6	1903.6	1903.6	1903.6	1903.6	1903.6
2.5°	2466.5	2484.9	2456.2	2458.3	2386.6	2353.9	2261.8	2207.5	2171.7	2071.4	1980.3
5°	2963.9	2942.4	2919.8	2906.5	2844.1	2756.1	2641.5	2550.4	2466.5	2270.0	2080.6
7.5°	3268.8	3257.6	3242.2	3234.0	3172.6	3080.5	2965.9	2888.1	2766.3	2500.2	2202.4
10°	3527.8	3514.5	3505.2	3511.4	3461.2	3401.9	3277.0	3188.0	3050.8	2743.8	2349.8
12.5°	3728.4	3735.5	3738.6	3771.3	3749.8	3714.0	3585.1	3490.9	3338.4	3000.7	2522.8
15°	3887.0	3884.9	3920.8	3983.2	4018.0	3995.5	3892.1	3813.3	3627.0	3253.5	2709.0
17.5°	3923.8	3925.9	3982.2	4091.7	4205.3	4260.5	4202.2	4108.0	3923.8	3503.2	2902.4
20°	3953.5	3957.6	4015.9	4140.8	4306.6	4461.1	4470.3	4402.8	4244.2	3773.4	3098.9
22.5°	4140.8	4150.0	4165.4	4244.2	4393.6	4589.1	4696.5	4682.2	4549.1	4056.9	3310.8
25°	4633.1	4605.4	4530.7	4508.2	4565.5	4724.2	4907.3	4935.0	4869.5	4369.0	3539.0
27.5°	5241.0	5211.3	5100.8	4984.1	4860.3	4915.5	5111.0	5193.9	5194.9	4712.9	3768.3
30°	5792.6	5769.1	5679.0	5512.2	5298.3	5218.5	5362.8	5474.3	5540.9	5110.0	4029.2
32.5°	6264.4	6242.9	6121.1	5985.0	5776.2	5615.6	5667.8	5775.2	5930.8	5623.7	4353.7
35°	6661.5	6640.0	6523.3	6386.2	6192.8	6096.6	6078.2	6151.8	6353.5	6160.0	4726.2
37.5°	6983.9	6962.4	6840.6	6711.7	6564.3	6570.4	6598.1	6633.9	6749.5	6734.2	5124.3
40°	7192.7	7170.2	7083.2	6991.1	6897.9	6971.6	7108.7	7065.8	7127.2	7197.8	5490.7
42.5°	7285.8	7257.1	7207.0	7186.5	7157.9	7272.5	7536.5	7493.6	7419.9	7506.9	5762.9
45°	7192.7	7168.1	7167.1	7229.5	7296.0	7443.4	7832.3	7797.5	7611.3	7656.3	5925.7
47.5°	6907.1	6885.6	6944.0	7107.7	7271.5	7486.4	7964.3	7970.5	7747.4	7718.7	6031.1
50°	6290.0	6275.7	6444.5	6754.6	7037.1	7352.3	7922.4	7993.0	7780.1	7699.3	6017.8
52.5°	5035.3	5101.8	5469.2	5987.1	6535.6	7116.9	7766.8	7858.9	7622.5	7571.3	5946.1
55°	3446.9	3477.6	3845.0	4601.3	5471.3	6607.3	7409.6	7551.9	7436.2	7549.8	6020.8
57.5°	1784.9	1809.4	2099.1	2770.4	3711.0	5221.5	6417.9	6884.6	7060.6	7658.3	6253.2
60°	732.8	753.2	873.0	1197.4	1871.9	3040.6	4618.7	5310.6	5724.0	6994.1	5553.1
62.5°	532.2	542.4	599.7	714.4	980.4	1490.1	2613.8	2868.7	3159.3	4383.4	3525.7
65°	448.3	459.5	505.6	575.2	715.4	913.9	1116.6	1122.7	1237.3	1785.9	1306.9
67.5°	375.6	385.8	426.8	486.1	578.2	648.9	599.7	600.8	598.7	647.8	626.3
70°	292.7	300.9	341.8	405.3	453.4	416.5	468.7	518.9	497.4	516.8	546.5
72.5°	213.9	223.1	258.9	307.0	294.7	296.8	379.7	430.9	418.6	440.1	467.7
75°	154.5	160.7	179.1	153.5	161.7	195.5	267.1	294.7	307.0	325.5	350.0
77.5°	50.1	50.1	56.3	70.6	88.0	108.5	136.1	147.4	165.8	186.3	203.7
80°	25.6	26.6	31.7	38.9	49.1	62.4	79.8	84.9	94.2	105.4	112.6
82.5°	12.3	13.3	15.4	19.4	25.6	32.7	44.0	49.1	55.3	62.4	67.5
85°	3.1	3.1	4.1	6.1	8.2	12.3	16.4	19.4	24.6	29.7	32.7
87.5°	0.0	0.0	0.0	0.0	0.0	1.0	3.1	4.1	5.1	6.1	8.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P636733

CATALOG NUMBER: GWS-SA4B-735-U-T2R-W-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1903.6	1903.6	1903.6	1903.6	1903.6	1903.6	1903.6	1903.6	1903.6	1903.6	1903.6
2.5°	1939.4	1882.1	1808.4	1746.0	1688.7	1644.7	1606.8	1588.4	1571.0	1558.7	1562.8
5°	1992.6	1894.4	1757.2	1662.1	1603.7	1574.0	1553.6	1543.3	1541.3	1533.1	1530.0
7.5°	2070.4	1930.2	1747.0	1650.8	1611.9	1596.6	1585.3	1579.2	1582.2	1574.0	1571.0
10°	2166.6	1989.5	1772.6	1687.6	1653.9	1642.6	1630.3	1622.1	1618.0	1605.8	1603.7
12.5°	2286.3	2063.2	1818.6	1734.7	1700.9	1681.5	1665.1	1650.8	1641.6	1626.2	1622.1
15°	2415.3	2145.1	1872.9	1780.8	1740.9	1712.2	1685.6	1664.1	1647.7	1627.3	1624.2
17.5°	2555.5	2231.1	1917.9	1812.5	1761.3	1723.5	1684.6	1652.8	1630.3	1603.7	1600.6
20°	2701.9	2318.1	1951.7	1827.8	1762.3	1711.2	1659.0	1617.0	1588.4	1561.8	1559.7
22.5°	2853.3	2397.9	1972.2	1823.8	1746.0	1682.5	1620.1	1573.0	1539.2	1507.5	1505.5
25°	3005.8	2474.7	1977.3	1807.4	1713.2	1639.5	1577.1	1521.8	1484.0	1448.2	1444.1
27.5°	3160.4	2539.1	1965.0	1774.6	1669.2	1589.4	1527.0	1472.7	1433.8	1398.0	1391.9
30°	3325.1	2594.4	1938.4	1731.6	1618.0	1536.2	1474.8	1433.8	1397.0	1361.2	1355.0
32.5°	3501.2	2642.5	1900.5	1679.4	1558.7	1483.0	1437.9	1401.1	1364.2	1332.5	1326.4
35°	3711.0	2674.2	1844.2	1611.9	1503.4	1444.1	1413.4	1370.4	1325.3	1290.5	1287.5
37.5°	3927.9	2698.8	1776.7	1547.4	1455.3	1421.5	1396.0	1337.6	1281.3	1239.4	1234.3
40°	4137.7	2719.3	1692.8	1487.0	1411.3	1405.2	1370.4	1297.7	1200.5	1153.4	1149.3
42.5°	4333.2	2725.4	1604.7	1422.6	1371.4	1368.3	1329.4	1216.9	1142.1	1112.5	1108.4
45°	4467.3	2720.3	1513.7	1362.2	1331.5	1315.1	1274.2	1158.5	1112.5	1085.9	1080.7
47.5°	4566.5	2693.7	1411.3	1298.7	1286.5	1263.9	1175.9	1121.7	1078.7	1052.1	1047.0
50°	4549.1	2583.1	1307.9	1237.3	1232.2	1212.8	1104.3	1075.6	1037.8	1009.1	1005.0
52.5°	4459.1	2373.3	1202.5	1169.8	1180.0	1142.1	1053.1	1020.4	987.6	954.9	947.7
55°	4481.6	2221.9	1122.7	1104.3	1122.7	1036.7	995.8	961.0	930.3	898.6	892.4
57.5°	4579.9	2072.4	1037.8	1033.7	1053.1	955.9	922.1	878.1	834.1	808.5	808.5
60°	3846.1	1510.6	888.3	898.6	942.6	890.4	860.7	815.7	767.6	745.1	745.1
62.5°	2274.1	947.7	736.9	725.6	753.2	786.0	802.4	765.5	708.2	678.5	679.6
65°	1001.9	689.8	649.9	640.7	632.5	655.0	700.0	703.1	642.7	607.9	608.9
67.5°	617.1	624.3	607.9	600.8	593.6	589.5	585.4	587.4	571.1	539.3	538.3
70°	556.7	576.2	564.9	558.8	549.6	542.4	517.9	477.9	450.3	442.1	451.3
72.5°	479.0	505.6	499.4	496.4	485.1	467.7	435.0	396.1	363.3	342.8	346.9
75°	361.3	382.8	385.8	386.9	374.6	358.2	324.4	291.7	263.0	241.5	246.6
77.5°	207.8	220.0	223.1	226.2	217.0	210.8	188.3	164.8	149.4	126.9	133.0
80°	115.6	120.8	120.8	121.8	116.7	109.5	94.2	80.9	73.7	63.5	64.5
82.5°	69.6	71.6	72.7	73.7	70.6	63.5	52.2	43.0	38.9	33.8	32.7
85°	33.8	35.8	35.8	36.8	31.7	27.6	21.5	16.4	14.3	10.2	11.3
87.5°	8.2	9.2	9.2	8.2	7.2	5.1	3.1	1.0	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)