

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: P637228

Luminaire Tested: GWS-SA4C-735-U-T2R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637228
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-SA4C-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: 16850.1 lumens
Efficiency: N/A
Efficacy: 131.1 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): 128.5
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

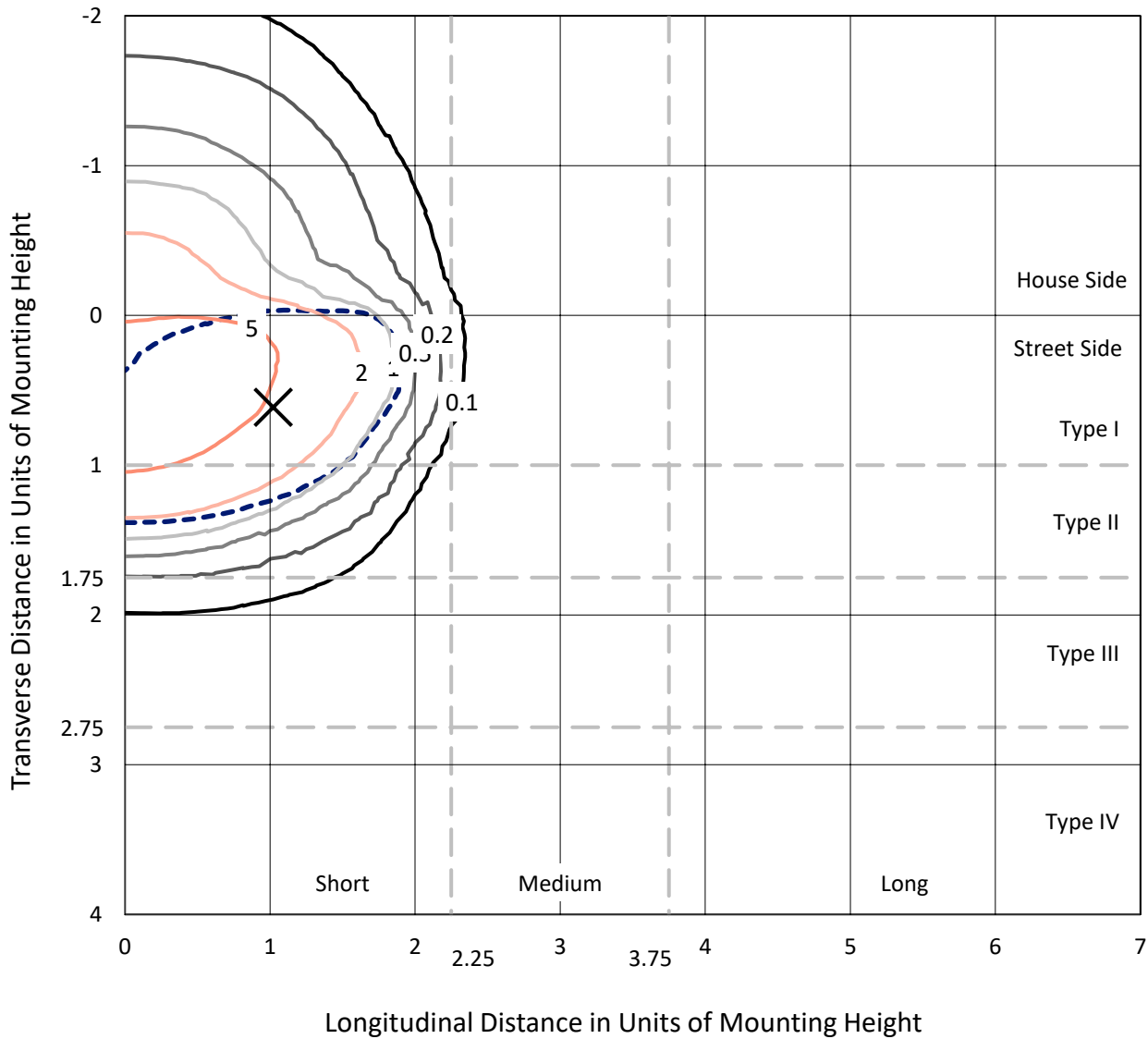


REPORT NUMBER: P637228

CATALOG NUMBER: GWS-SA4C-735-U-T2R-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

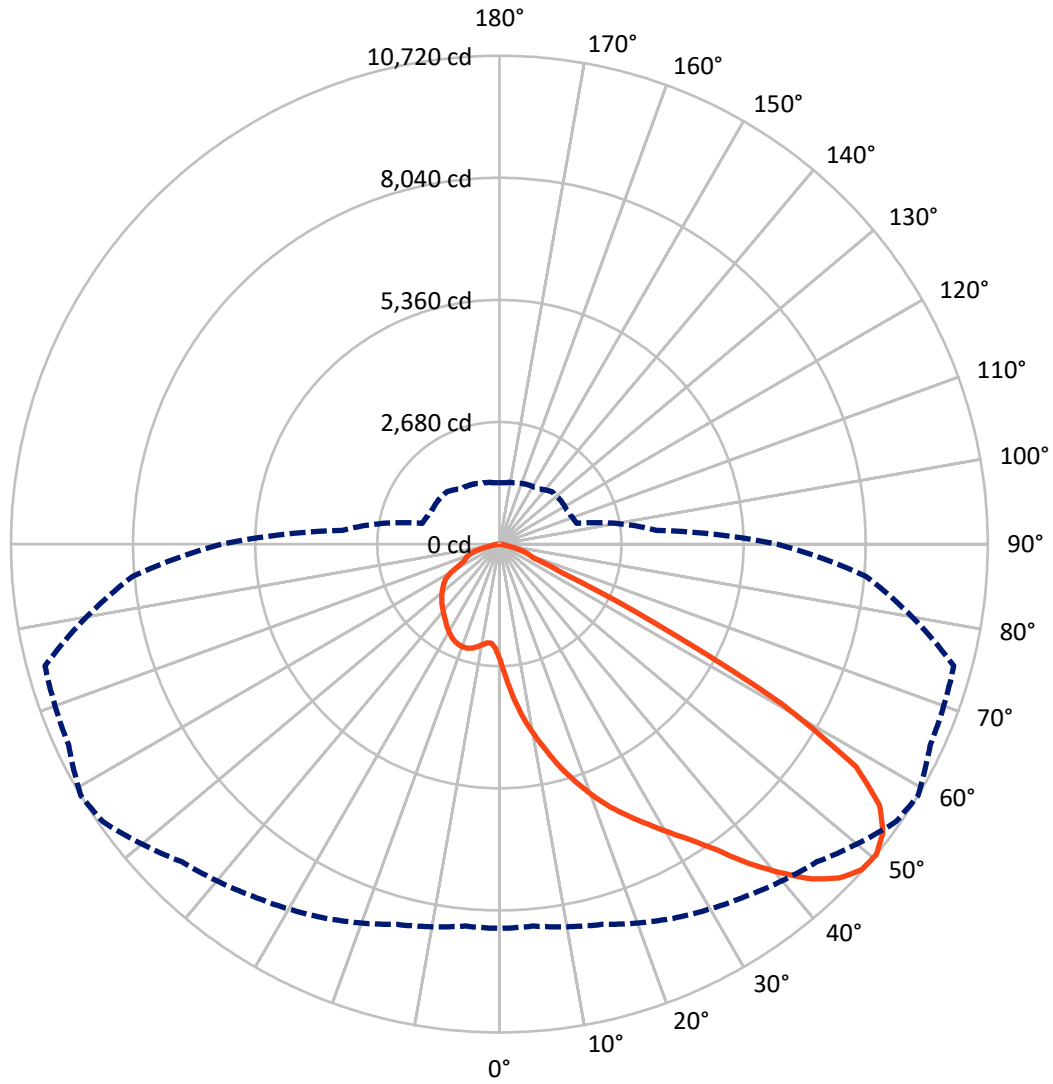
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 fc
 Type II - Short - N/A

REPORT NUMBER: P637228
CATALOG NUMBER: GWS-SA4C-735-U-T2R-W-GRSWH

Luminous Intensity Polar Plot



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

REPORT NUMBER: P637228

CATALOG NUMBER: GWS-SA4C-735-U-T2R-W-GRSWH

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3875.8	0.0	3875.8
	% Fixture	23.0	0.0	23.0
Street Side	Lumens	12974.3	0.0	12974.3
	% Fixture	77.0	0.0	77.0
Total	Lumens	16850.1	0.0	16850.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	286.4	1.7
10°-20°	1039.7	6.2
20°-30°	1968.7	11.7
30°-40°	3264.7	19.4
40°-50°	4459.7	26.5
50°-60°	4048.3	24.0
60°-70°	1348.1	8.0
70°-80°	393.2	2.3
80°-90°	41.3	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°	16850.1	100.0
0°-180°	16850.1	100.0

Coefficient of Utilization



REPORT NUMBER: P637228

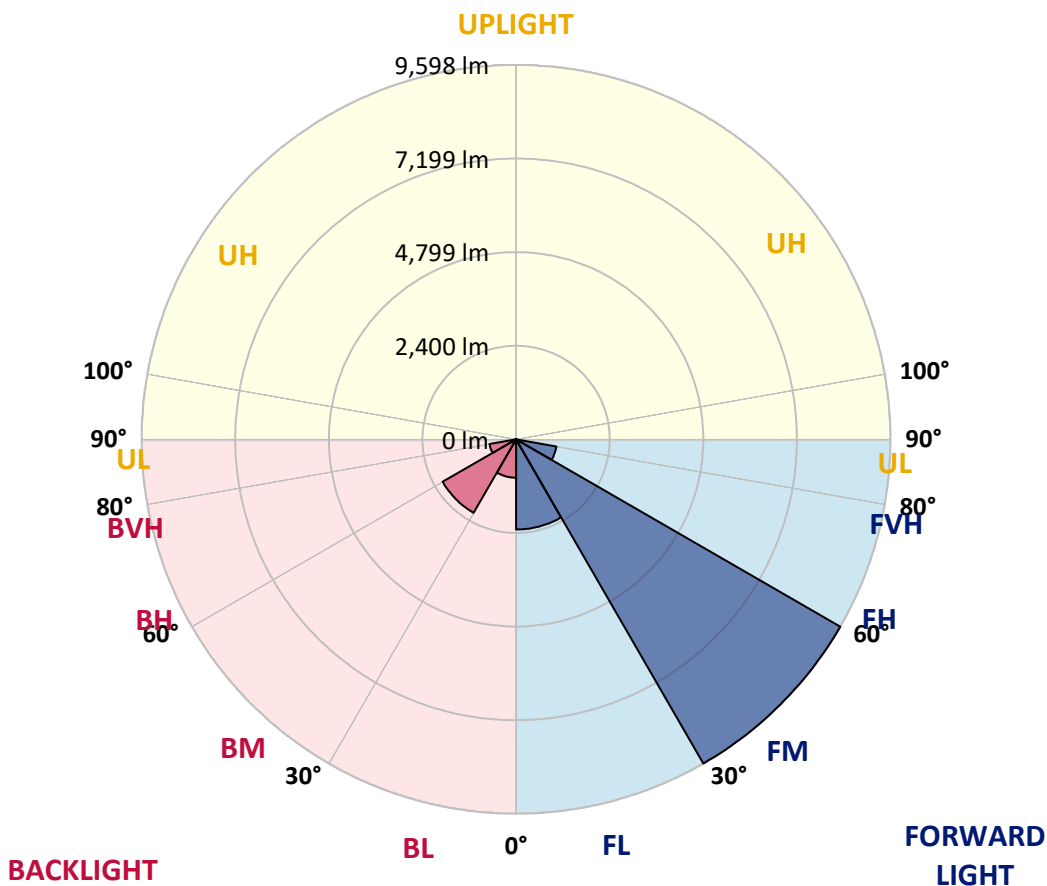
CATALOG NUMBER: GWS-SA4C-735-U-T2R-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2310.6	13.7			
FM (30°-60°)	9598.0	57.0			
FH (60°-80°)	1049.5	6.2			G1/1800
FVH (80°-90°)	16.1	0.1			G1/100
BL (0°-30°)	984.2	5.8	B2/1000		
BM (30°-60°)	2174.7	12.9	B2/2500		
BH (60°-80°)	691.8	4.1	B2/1000		G2/1000
BVH (80°-90°)	25.2	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: P637228

CATALOG NUMBER: GWS-SA4C-735-U-T2R-W-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	2552.9	2552.9	2552.9	2552.9	2552.9	2552.9	2552.9	2552.9	2552.9	2552.9	2552.9
2.5°	3307.8	3332.5	3294.1	3296.8	3200.7	3156.8	3033.3	2960.6	2912.5	2778.0	2655.8
5°	3974.9	3946.0	3915.8	3898.0	3814.3	3696.2	3542.5	3420.3	3307.8	3044.3	2790.4
7.5°	4383.9	4368.8	4348.2	4337.2	4254.8	4131.3	3977.6	3873.3	3710.0	3353.1	2953.7
10°	4731.1	4713.3	4700.9	4709.2	4641.9	4562.3	4394.8	4275.4	4091.5	3679.8	3151.3
12.5°	5000.1	5009.7	5013.9	5057.8	5029.0	4980.9	4808.0	4681.7	4477.2	4024.3	3383.3
15°	5212.9	5210.1	5258.2	5341.9	5388.6	5358.4	5219.7	5114.1	4864.3	4363.3	3633.1
17.5°	5262.3	5265.0	5340.5	5487.4	5639.7	5713.9	5635.6	5509.3	5262.3	4698.2	3892.5
20°	5302.1	5307.6	5385.8	5553.3	5775.6	5982.9	5995.2	5904.6	5691.9	5060.5	4156.0
22.5°	5553.3	5565.6	5586.2	5691.9	5892.3	6154.4	6298.5	6279.3	6100.9	5440.7	4440.1
25°	6213.5	6176.4	6076.2	6046.0	6122.9	6335.6	6581.3	6618.3	6530.5	5859.3	4746.2
27.5°	7028.7	6988.9	6840.7	6684.2	6518.2	6592.3	6854.4	6965.6	6967.0	6320.5	5053.7
30°	7768.5	7737.0	7616.2	7392.5	7105.6	6998.5	7192.1	7341.7	7430.9	6853.1	5403.7
32.5°	8401.3	8372.4	8209.1	8026.6	7746.6	7531.1	7601.1	7745.2	7953.8	7542.1	5838.8
35°	8933.8	8905.0	8748.5	8564.6	8305.2	8176.2	8151.5	8250.3	8520.7	8261.3	6338.4
37.5°	9366.2	9337.3	9174.0	9001.1	8803.4	8811.7	8848.7	8896.8	9051.8	9031.3	6872.3
40°	9646.2	9616.0	9499.3	9375.8	9250.9	9349.7	9533.6	9476.0	9558.3	9653.0	7363.6
42.5°	9771.1	9732.6	9665.4	9637.9	9599.5	9753.2	10107.3	10049.7	9950.9	10067.5	7728.7
45°	9646.2	9613.2	9611.8	9695.6	9784.8	9982.4	10504.0	10457.3	10207.5	10267.9	7947.0
47.5°	9263.2	9234.4	9312.6	9532.2	9751.8	10040.1	10681.0	10689.3	10390.1	10351.6	8088.3
50°	8435.6	8416.4	8642.8	9058.7	9437.5	9860.3	10624.8	10719.5	10434.0	10325.6	8070.5
52.5°	6752.9	6842.1	7334.8	8029.3	8765.0	9544.6	10416.1	10539.7	10222.6	10154.0	7974.4
55°	4622.7	4663.9	5156.6	6170.9	7337.6	8861.1	9937.1	10127.9	9972.8	10125.2	8074.6
57.5°	2393.7	2426.6	2815.1	3715.4	4976.8	7002.7	8607.1	9233.0	9469.1	10270.7	8386.2
60°	982.7	1010.2	1170.8	1605.9	2510.4	4077.8	6194.2	7122.1	7676.6	9379.9	7447.4
62.5°	713.7	727.4	804.3	958.0	1314.9	1998.4	3505.4	3847.2	4237.0	5878.6	4728.4
65°	601.2	616.3	678.0	771.4	959.4	1225.7	1497.4	1505.7	1659.4	2395.1	1752.7
67.5°	503.7	517.4	572.3	652.0	775.5	870.2	804.3	805.7	802.9	868.8	840.0
70°	392.5	403.5	458.4	543.5	608.0	558.6	628.6	695.9	667.1	693.1	732.9
72.5°	286.9	299.2	347.3	411.8	395.3	398.0	509.2	577.8	561.4	590.2	627.2
75°	207.3	215.5	240.2	205.9	216.9	262.2	358.2	395.3	411.8	436.5	469.4
77.5°	67.3	67.3	75.5	94.7	118.0	145.5	182.5	197.6	222.4	249.8	273.1
80°	34.3	35.7	42.5	52.2	65.9	83.7	107.1	113.9	126.3	141.4	151.0
82.5°	16.5	17.8	20.6	26.1	34.3	43.9	59.0	65.9	74.1	83.7	90.6
85°	4.1	4.1	5.5	8.2	11.0	16.5	22.0	26.1	32.9	39.8	43.9
87.5°	0.0	0.0	0.0	0.0	0.0	1.4	4.1	5.5	6.9	8.2	11.0
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: P637228

CATALOG NUMBER: GWS-SA4C-735-U-T2R-W-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2552.9	2552.9	2552.9	2552.9	2552.9	2552.9	2552.9	2552.9	2552.9	2552.9	2552.9
2.5°	2600.9	2524.1	2425.3	2341.5	2264.7	2205.7	2154.9	2130.2	2106.8	2090.4	2095.9
5°	2672.3	2540.6	2356.6	2229.0	2150.8	2111.0	2083.5	2069.8	2067.0	2056.1	2051.9
7.5°	2776.6	2588.6	2342.9	2213.9	2161.7	2141.1	2126.1	2117.8	2121.9	2111.0	2106.8
10°	2905.7	2668.2	2377.2	2263.3	2218.0	2202.9	2186.4	2175.5	2170.0	2153.5	2150.8
12.5°	3066.2	2767.0	2439.0	2326.4	2281.1	2255.1	2233.1	2213.9	2201.5	2181.0	2175.5
15°	3239.2	2876.8	2511.7	2388.2	2334.7	2296.2	2260.6	2231.7	2209.8	2182.3	2178.2
17.5°	3427.2	2992.1	2572.1	2430.8	2362.1	2311.3	2259.2	2216.6	2186.4	2150.8	2146.6
20°	3623.5	3108.8	2617.4	2451.3	2363.5	2294.9	2224.9	2168.6	2130.2	2094.5	2091.7
22.5°	3826.6	3215.8	2644.9	2445.9	2341.5	2256.4	2172.7	2109.6	2064.3	2021.7	2019.0
25°	4031.1	3318.8	2651.7	2423.9	2297.6	2198.8	2115.1	2041.0	1990.2	1942.1	1936.6
27.5°	4238.4	3405.3	2635.3	2380.0	2238.6	2131.5	2047.8	1975.1	1922.9	1874.9	1866.6
30°	4459.4	3479.4	2599.6	2322.3	2170.0	2060.2	1977.8	1922.9	1873.5	1825.5	1817.2
32.5°	4695.4	3543.9	2548.8	2252.3	2090.4	1988.8	1928.4	1879.0	1829.6	1787.0	1778.8
35°	4976.8	3586.4	2473.3	2161.7	2016.2	1936.6	1895.5	1837.8	1777.4	1730.8	1726.6
37.5°	5267.8	3619.4	2382.7	2075.3	1951.7	1906.4	1872.1	1793.9	1718.4	1662.1	1655.3
40°	5549.1	3646.8	2270.2	1994.3	1892.7	1884.5	1837.8	1740.4	1610.0	1546.8	1541.4
42.5°	5811.3	3655.1	2152.1	1907.8	1839.2	1835.1	1782.9	1631.9	1531.7	1491.9	1486.5
45°	5991.1	3648.2	2030.0	1826.8	1785.7	1763.7	1708.8	1553.7	1491.9	1456.3	1449.4
47.5°	6124.2	3612.5	1892.7	1741.7	1725.3	1695.1	1577.0	1504.3	1446.6	1411.0	1404.1
50°	6100.9	3464.3	1754.1	1659.4	1652.5	1626.5	1481.0	1442.5	1391.7	1353.3	1347.8
52.5°	5980.1	3182.9	1612.7	1568.8	1582.5	1531.7	1412.3	1368.4	1324.5	1280.6	1271.0
55°	6010.3	2979.8	1505.7	1481.0	1505.7	1390.4	1335.5	1288.8	1247.6	1205.1	1196.8
57.5°	6142.1	2779.4	1391.7	1386.3	1412.3	1281.9	1236.7	1177.6	1118.6	1084.3	1084.3
60°	5158.0	2025.9	1191.4	1205.1	1264.1	1194.1	1154.3	1093.9	1029.4	999.2	999.2
62.5°	3049.8	1271.0	988.2	973.1	1010.2	1054.1	1076.1	1026.7	949.8	910.0	911.4
65°	1343.7	925.1	871.6	859.2	848.2	878.4	938.8	942.9	862.0	815.3	816.7
67.5°	827.6	837.2	815.3	805.7	796.1	790.6	785.1	787.8	765.9	723.3	722.0
70°	746.7	772.7	757.6	749.4	737.0	727.4	694.5	641.0	603.9	592.9	605.3
72.5°	642.3	678.0	669.8	665.7	650.6	627.2	583.3	531.2	487.2	459.8	465.3
75°	484.5	513.3	517.4	518.8	502.3	480.4	435.1	391.2	352.7	323.9	330.8
77.5°	278.6	295.1	299.2	303.3	291.0	282.7	252.5	221.0	200.4	170.2	178.4
80°	155.1	162.0	162.0	163.3	156.5	146.9	126.3	108.4	98.8	85.1	86.5
82.5°	93.3	96.1	97.4	98.8	94.7	85.1	70.0	57.6	52.2	45.3	43.9
85°	45.3	48.0	48.0	49.4	42.5	37.1	28.8	22.0	19.2	13.7	15.1
87.5°	11.0	12.4	12.4	11.0	9.6	6.9	4.1	1.4	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)