

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: P639673

Luminaire Tested: GWS-SA5C-735-U-AFL-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639673
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-47)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5C-735-U-AFL-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (80) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21306.6 lumens
Efficiency: N/A
Efficacy: 135.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

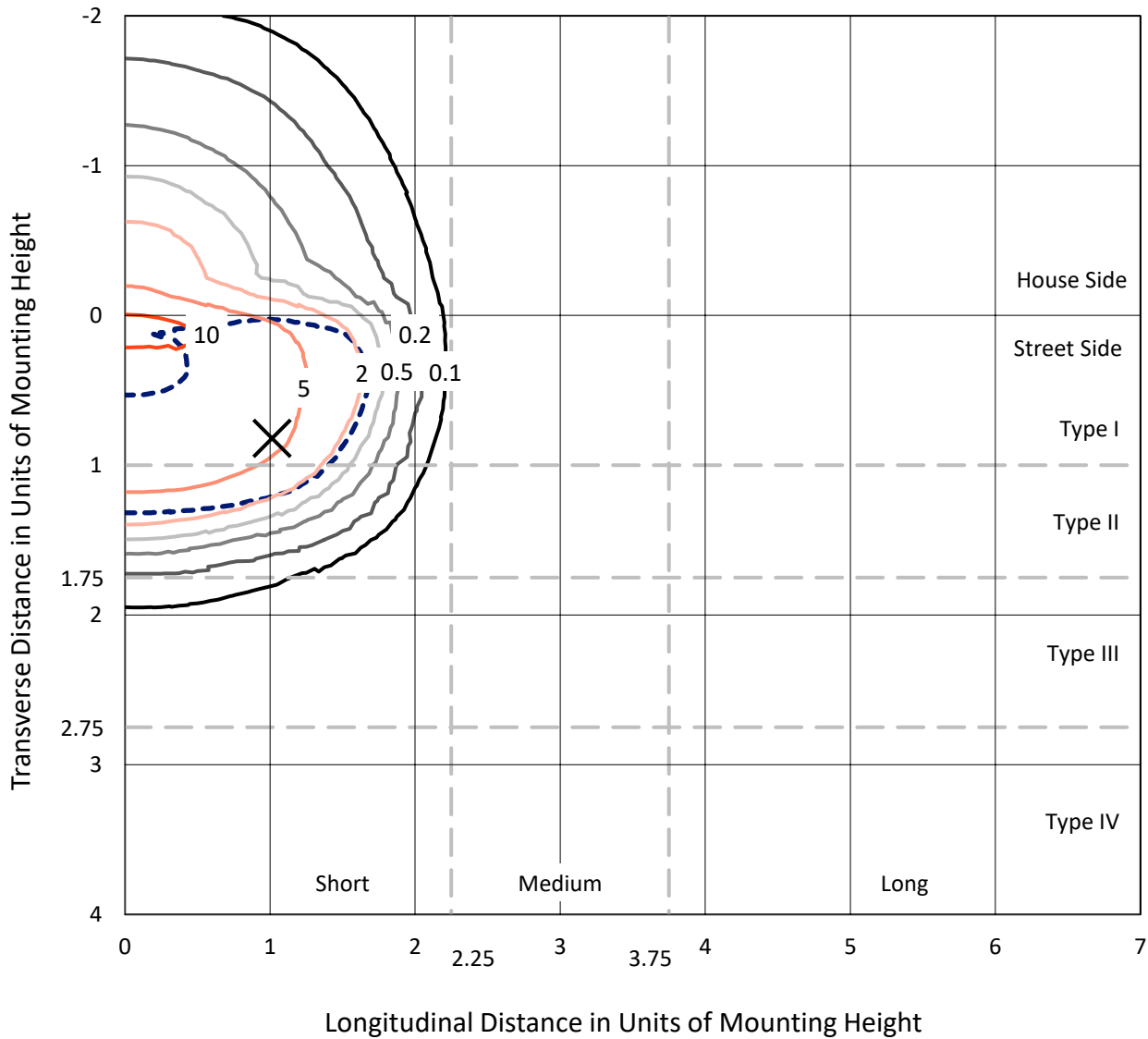
Input Watts (W): 157.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P639673
 CATALOG NUMBER: GWS-SA5C-735-U-AFL-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

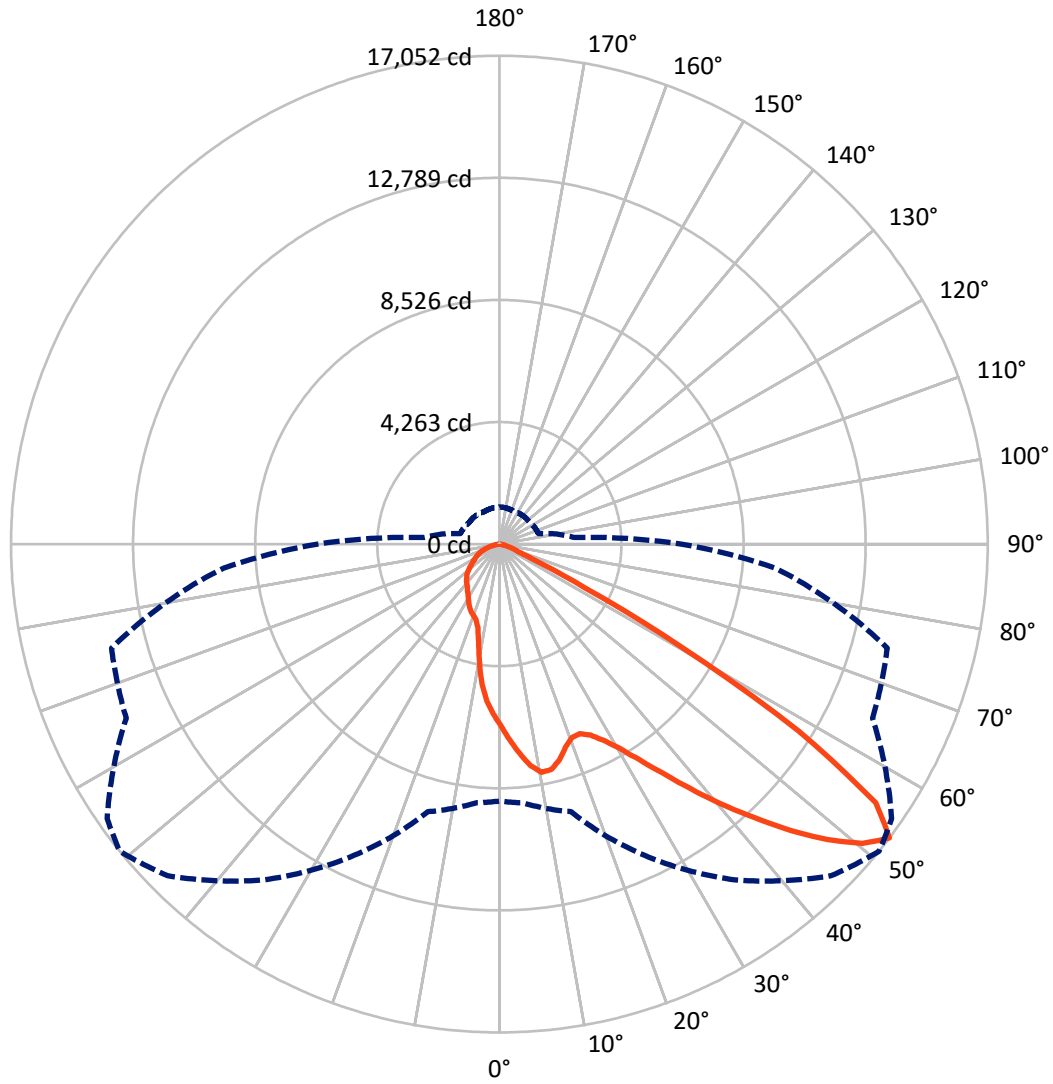
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.4 fc
 Type II - Short - N/A

REPORT NUMBER: P639673
CATALOG NUMBER: GWS-SA5C-735-U-AFL-W-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 51-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

REPORT NUMBER: P639673

CATALOG NUMBER: GWS-SA5C-735-U-AFL-W-GRSWH

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4151.4	0.0	4151.4
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	17155.2	0.0	17155.2
	% Fixture	80.5	0.0	80.5
Total	Lumens	21306.6	0.0	21306.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	592.0	2.8
10°-20°	1538.2	7.2
20°-30°	2501.0	11.7
30°-40°	3963.5	18.6
40°-50°	5977.9	28.1
50°-60°	5171.3	24.3
60°-70°	1172.4	5.5
70°-80°	345.7	1.6
80°-90°	44.5	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°	21306.6	100.0
0°-180°	21306.6	100.0

Coefficient of Utilization



REPORT NUMBER: P639673

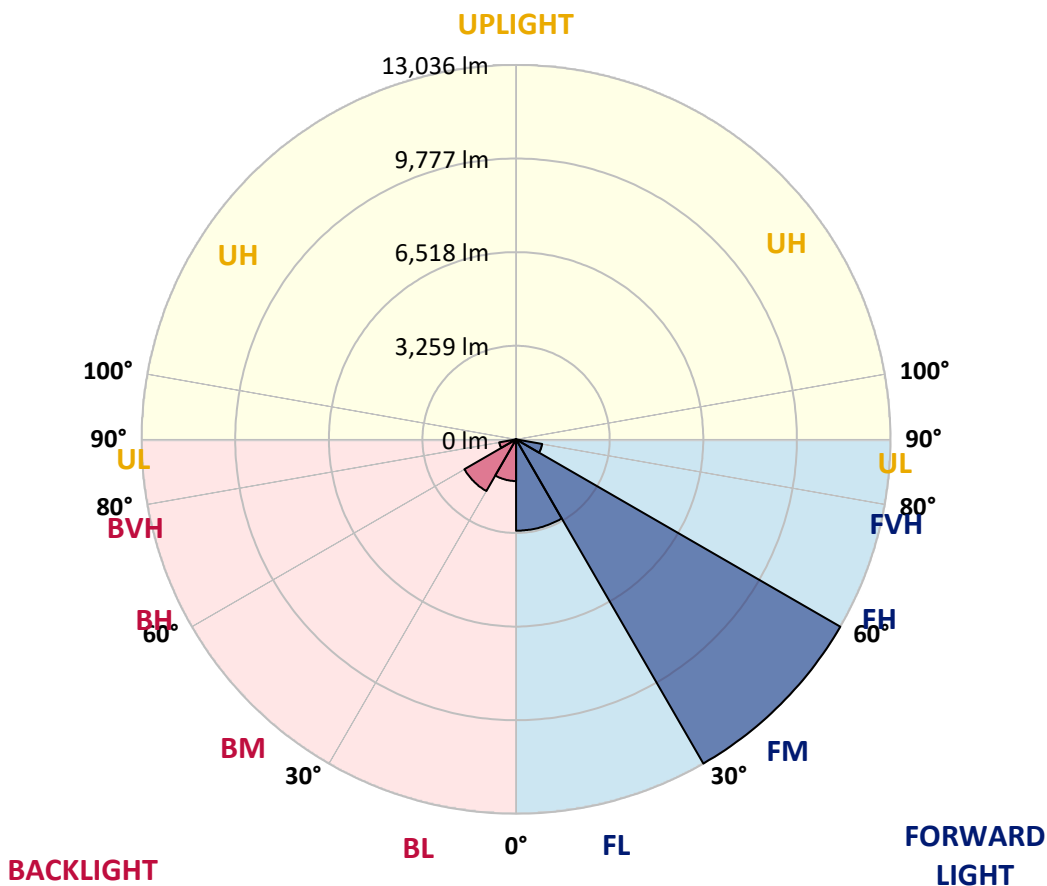
CATALOG NUMBER: GWS-SA5C-735-U-AFL-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3180.1	14.9			
FM (30°-60°)	13035.7	61.2			
FH (60°-80°)	922.6	4.3			G1/1800
FVH (80°-90°)	16.8	0.1			G1/100
BL (0°-30°)	1451.2	6.8	B3/2500		
BM (30°-60°)	2077.1	9.7	B2/2500		
BH (60°-80°)	595.4	2.8	B2/1000		G2/1000
BVH (80°-90°)	27.7	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short





REPORT NUMBER: P639673

CATALOG NUMBER: GWS-SA5C-735-U-AFL-W-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	51°	55°	65°	75°	85°
0°	6344.0	6344.0	6344.0	6344.0	6344.0	6344.0	6344.0	6344.0	6344.0	6344.0	6344.0
2.5°	7069.7	7110.1	7047.8	7024.2	6985.5	6918.2	6840.7	6818.8	6652.1	6542.7	6419.8
5°	7780.2	7802.1	7751.6	7701.1	7605.1	7485.6	7335.7	7303.7	7000.7	6749.8	6488.8
7.5°	7938.5	7930.0	7973.8	8002.4	7990.7	7943.5	7810.5	7748.2	7386.2	6988.9	6603.3
10°	7312.1	7265.0	7426.6	7618.6	7849.2	8115.3	8100.1	8095.0	7780.2	7310.5	6749.8
12.5°	6482.1	6458.5	6589.9	6830.6	7266.7	7856.0	8076.5	8248.3	8135.5	7616.9	6913.1
15°	6007.3	5998.9	6088.1	6261.5	6608.4	7352.6	7824.0	8164.1	8440.2	7945.2	7086.5
17.5°	5921.4	5926.5	5956.8	6056.1	6305.3	6918.2	7463.7	7938.5	8677.6	8305.5	7303.7
20°	6172.3	6206.0	6153.8	6168.9	6303.6	6761.6	7217.9	7711.2	8829.1	8667.5	7537.8
22.5°	6729.6	6717.8	6603.3	6536.0	6537.7	6857.6	7190.9	7605.1	8928.5	9019.4	7749.9
25°	7361.0	7347.5	7211.1	7061.3	6967.0	7118.5	7384.5	7717.9	9017.7	9341.0	7919.9
27.5°	8106.8	8064.7	7913.2	7721.3	7512.5	7578.2	7758.3	8022.6	9155.8	9657.5	8032.8
30°	8829.1	8877.9	8660.8	8433.5	8212.9	8172.5	8276.9	8516.0	9436.9	10027.9	8167.4
32.5°	9787.1	9770.3	9529.5	9233.2	8918.4	8888.1	8970.6	9189.4	9942.0	10539.7	8372.9
35°	10947.2	10950.5	10608.8	10208.0	9760.2	9679.4	9817.4	10029.6	10694.6	11233.4	8697.8
37.5°	12152.7	12147.6	11849.6	11395.0	10783.9	10669.4	10827.6	10985.9	11635.8	12177.9	9202.9
40°	12997.9	13031.5	12891.8	12652.7	12073.5	11794.1	11933.8	12043.2	12659.5	13289.1	9867.9
42.5°	13477.7	13528.2	13558.5	13701.6	13396.9	13098.9	13048.4	13105.6	13573.7	14321.2	10492.6
45°	13580.4	13647.8	13868.3	14398.7	14516.5	14432.3	14267.4	14129.3	14255.6	15053.6	10901.7
47.5°	13127.5	13245.4	13716.8	14644.5	15333.1	15597.4	15413.9	15203.5	14649.5	15242.2	10859.6
50°	11332.7	11470.8	12533.2	14142.8	15449.3	16412.3	16429.2	16117.7	14602.4	14698.4	10330.9
52.5°	8972.2	9066.5	9674.3	11989.4	14309.4	16378.7	17052.1	16718.8	14375.1	14018.2	9669.3
55°	5362.5	5514.0	6081.4	7909.8	11147.5	14516.5	15951.0	16112.6	14264.0	13447.4	9218.0
57.5°	1809.9	1884.0	2426.2	3493.6	6569.6	10629.0	12324.4	12981.0	12949.0	12575.3	8337.5
60°	862.0	878.9	988.3	1325.0	2629.9	5554.4	7295.3	8053.0	8743.3	8812.3	5187.4
62.5°	656.6	666.7	722.3	794.7	1057.3	2340.3	3343.8	3922.9	4190.6	3596.3	1889.1
65°	548.9	557.3	599.4	644.8	718.9	1013.6	1283.0	1479.9	1333.5	1038.8	900.8
67.5°	458.0	464.7	496.7	545.5	596.0	678.5	712.2	732.4	767.7	862.0	828.4
70°	358.6	365.4	399.0	441.1	489.9	510.1	542.1	562.3	633.1	754.3	750.9
72.5°	276.1	284.5	303.1	330.0	370.4	390.6	426.0	449.5	489.9	587.6	628.0
75°	202.0	207.1	223.9	232.3	237.4	232.3	267.7	294.6	348.5	385.6	395.7
77.5°	82.5	92.6	89.2	89.2	106.1	128.0	146.5	163.3	200.4	222.2	223.9
80°	33.7	37.0	43.8	48.8	58.9	75.8	87.6	94.3	111.1	124.6	134.7
82.5°	20.2	21.9	25.3	26.9	33.7	43.8	50.5	55.6	69.0	82.5	87.6
85°	10.1	10.1	11.8	13.5	16.8	20.2	23.6	26.9	35.4	43.8	48.8
87.5°	1.7	1.7	1.7	3.4	5.1	6.7	8.4	10.1	11.8	13.5	16.8
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: P639673

CATALOG NUMBER: GWS-SA5C-735-U-AFL-W-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6344.0	6344.0	6344.0	6344.0	6344.0	6344.0	6344.0	6344.0	6344.0	6344.0	6344.0
2.5°	6347.4	6256.5	6150.4	6066.2	5968.6	5896.2	5793.5	5729.5	5668.9	5618.4	5581.3
5°	6354.1	6200.9	5980.4	5785.1	5583.0	5391.1	5194.1	5034.1	4891.0	4771.5	4761.4
7.5°	6392.9	6172.3	5827.2	5485.4	5091.4	4710.9	4330.4	4020.6	3784.9	3662.0	3636.7
10°	6458.5	6168.9	5670.6	5125.1	4453.3	3840.4	3389.2	3153.5	3017.1	2968.3	2951.5
12.5°	6527.6	6160.5	5470.2	4616.6	3683.9	3146.8	2899.3	2870.6	2895.9	2899.3	2897.6
15°	6611.7	6155.5	5217.7	4020.6	3121.5	2825.2	2842.0	2902.6	2961.6	2975.0	2975.0
17.5°	6714.4	6143.7	4874.2	3438.0	2769.6	2762.9	2852.1	2932.9	2988.5	2998.6	2998.6
20°	6822.2	6113.4	4451.6	2963.2	2626.5	2724.2	2820.1	2882.4	2921.2	2934.6	2936.3
22.5°	6896.3	6032.6	3965.0	2611.4	2537.3	2650.1	2719.1	2783.1	2783.1	2749.4	2739.3
25°	6911.4	5859.1	3438.0	2370.6	2431.2	2535.6	2606.3	2569.3	2500.2	2473.3	2471.6
27.5°	6855.9	5606.6	2917.8	2198.9	2303.2	2407.6	2395.9	2342.0	2311.7	2284.7	2294.8
30°	6788.5	5303.5	2466.6	2057.4	2155.1	2257.8	2217.4	2198.9	2177.0	2146.7	2153.4
32.5°	6743.1	4965.1	2119.7	1948.0	2055.8	2072.6	2101.2	2099.5	2079.3	2022.1	2018.7
35°	6756.5	4623.3	1887.4	1858.8	1973.3	1966.5	2020.4	2010.3	1870.5	1791.4	1786.4
37.5°	6864.3	4295.0	1751.0	1788.0	1841.9	1884.0	1931.2	1809.9	1761.1	1710.6	1714.0
40°	7069.7	3990.3	1676.9	1749.3	1762.8	1825.1	1715.7	1714.0	1692.1	1646.6	1644.9
42.5°	7302.0	3732.7	1626.4	1730.8	1712.3	1724.1	1607.9	1621.4	1619.7	1591.1	1582.6
45°	7443.5	3495.3	1586.0	1661.8	1666.8	1549.0	1513.6	1528.8	1537.2	1522.0	1520.3
47.5°	7297.0	3222.5	1543.9	1555.7	1599.5	1469.8	1426.1	1427.7	1442.9	1444.6	1437.8
50°	6886.2	2917.8	1493.4	1464.8	1436.2	1387.3	1346.9	1338.5	1353.7	1368.8	1373.9
52.5°	6355.8	2626.5	1409.2	1365.4	1298.1	1298.1	1279.6	1252.6	1272.8	1293.1	1299.8
55°	5966.9	2411.0	1289.7	1240.9	1166.8	1192.0	1188.7	1165.1	1192.0	1207.2	1212.2
57.5°	5170.5	1937.9	1134.8	1119.6	1057.3	1087.6	1094.4	1064.1	1050.6	1054.0	1059.0
60°	3069.3	1251.0	1023.7	1022.0	966.4	1001.8	1022.0	991.7	951.3	956.3	963.1
62.5°	1377.2	956.3	883.9	877.2	875.5	921.0	942.9	914.2	857.0	862.0	868.8
65°	867.1	826.7	767.7	767.7	794.7	833.4	850.2	826.7	761.0	752.6	759.3
67.5°	804.8	769.4	708.8	697.0	710.5	742.5	744.2	698.7	660.0	653.3	653.3
70°	722.3	695.4	636.4	612.9	607.8	606.1	601.1	589.3	564.0	557.3	560.7
72.5°	597.7	579.2	542.1	516.9	503.4	501.7	481.5	471.4	449.5	446.2	444.5
75°	395.7	400.7	400.7	397.3	385.6	380.5	358.6	348.5	323.3	313.2	311.5
77.5°	234.0	239.1	245.8	247.5	245.8	245.8	225.6	213.8	188.6	175.1	171.7
80°	143.1	146.5	149.8	154.9	148.2	143.1	124.6	112.8	101.0	92.6	90.9
82.5°	92.6	96.0	97.7	101.0	97.7	90.9	75.8	69.0	60.6	53.9	52.2
85°	52.2	53.9	57.2	57.2	52.2	47.1	38.7	33.7	28.6	25.3	25.3
87.5°	18.5	18.5	18.5	20.2	16.8	15.2	10.1	6.7	5.1	5.1	5.1
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)