

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: P637198

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

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637198
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-SA4C-735-U-AFL-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE 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: 17368.9 lumens
Efficiency: N/A
Efficacy: 135.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

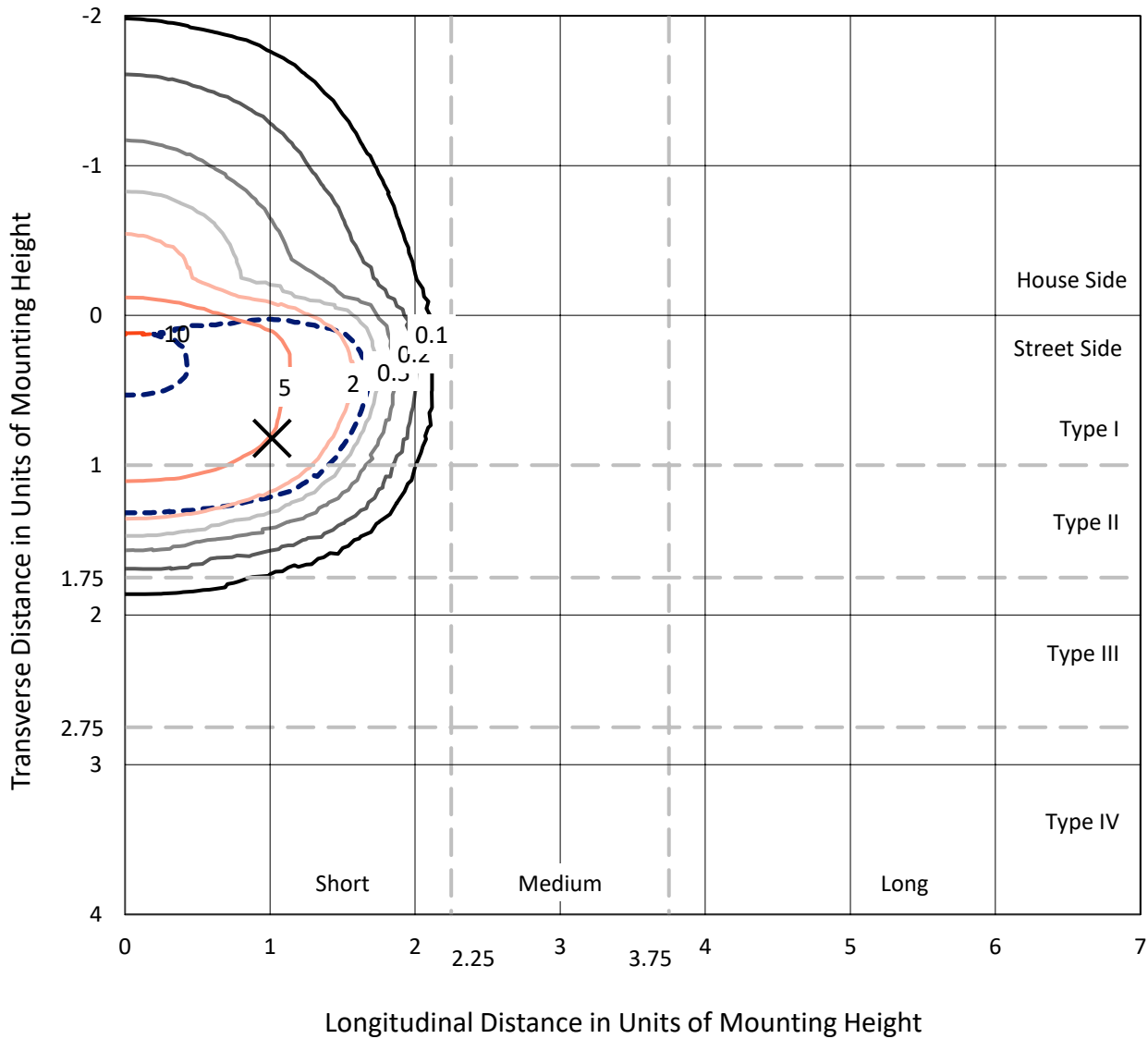
Input Watts (W): 128.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

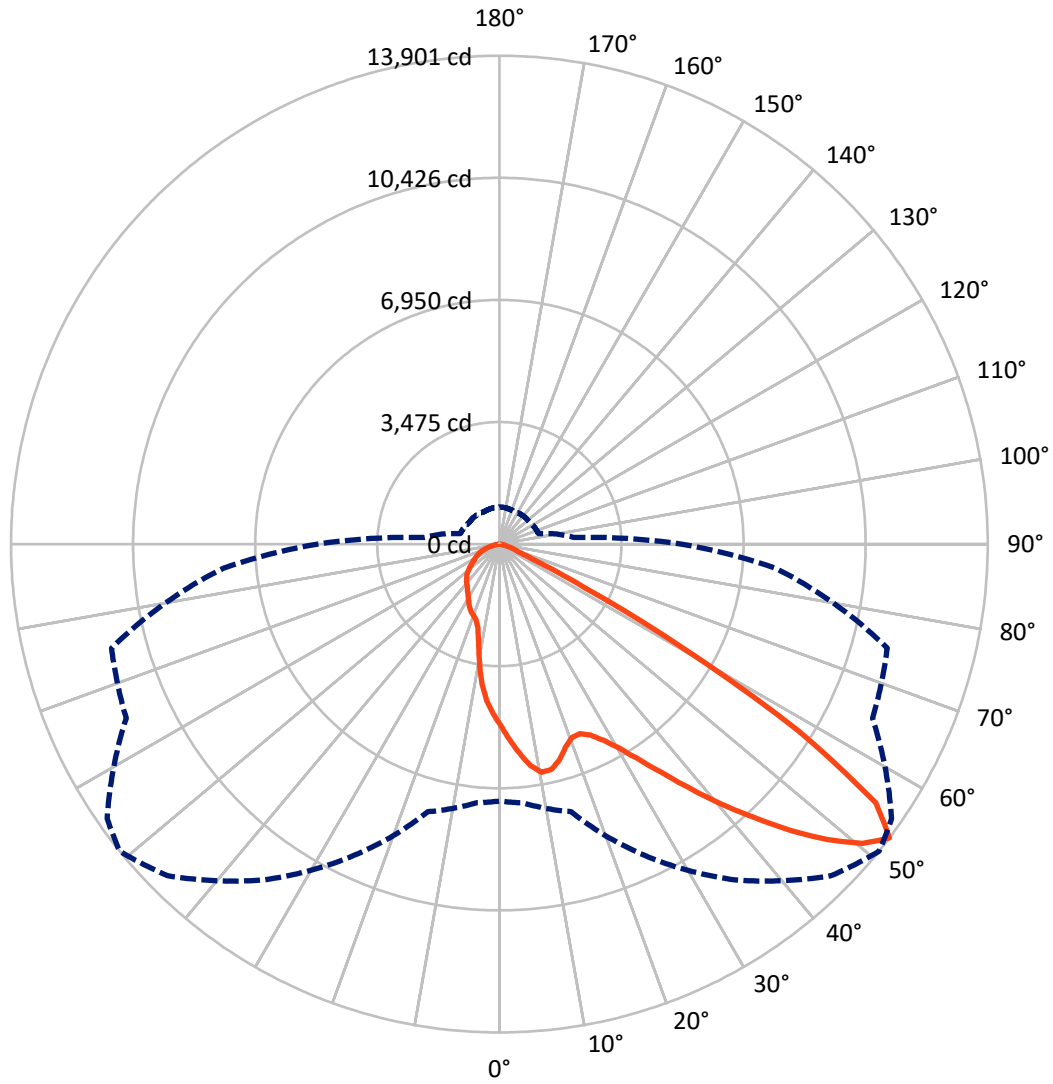
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3384.2	0.0	3384.2
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	13984.7	0.0	13984.7
	% Fixture	80.5	0.0	80.5
Total	Lumens	17368.9	0.0	17368.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	482.6	2.8
10°-20°	1253.9	7.2
20°-30°	2038.8	11.7
30°-40°	3231.0	18.6
40°-50°	4873.1	28.1
50°-60°	4215.6	24.3
60°-70°	955.7	5.5
70°-80°	281.8	1.6
80°-90°	36.3	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°	17368.9	100.0
0°-180°	17368.9	100.0

Coefficient of Utilization



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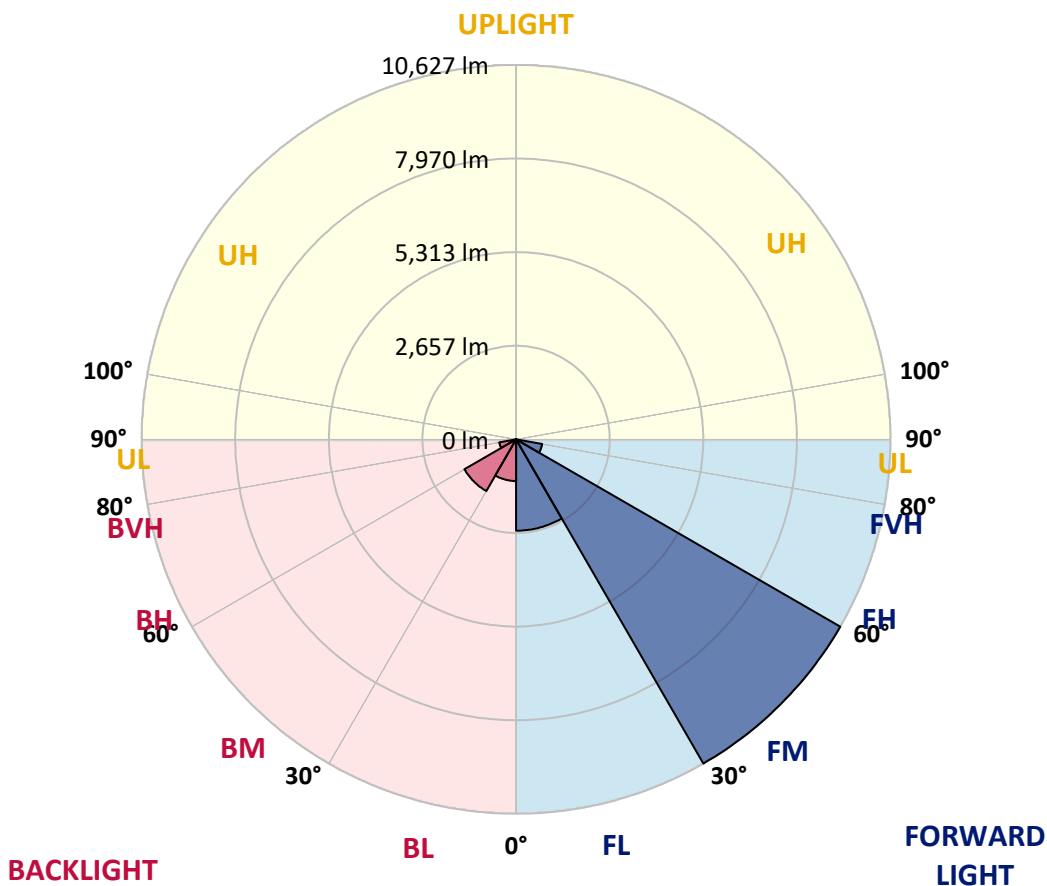
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2592.4	14.9			
FM (30°-60°)	10626.5	61.2			
FH (60°-80°)	752.1	4.3			G1/1800
FVH (80°-90°)	13.7	0.1			G1/100
BL (0°-30°)	1183.0	6.8	B3/2500		
BM (30°-60°)	1693.2	9.7	B2/2500		
BH (60°-80°)	485.4	2.8	B1/500		G1/500
BVH (80°-90°)	22.6	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-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	51°	55°	65°	75°	85°
0°	5171.6	5171.6	5171.6	5171.6	5171.6	5171.6	5171.6	5171.6	5171.6	5171.6	5171.6
2.5°	5763.1	5796.1	5745.3	5726.1	5694.5	5639.6	5576.5	5558.6	5422.8	5333.5	5233.4
5°	6342.3	6360.2	6319.0	6277.8	6199.6	6102.1	5980.0	5953.9	5706.9	5502.4	5289.6
7.5°	6471.3	6464.5	6500.2	6523.5	6513.9	6475.5	6367.0	6316.3	6021.2	5697.3	5383.0
10°	5960.8	5922.3	6054.1	6210.6	6398.6	6615.5	6603.1	6599.0	6342.3	5959.4	5502.4
12.5°	5284.1	5264.9	5372.0	5568.2	5923.7	6404.1	6583.9	6723.9	6631.9	6209.2	5635.5
15°	4897.1	4890.2	4963.0	5104.3	5387.1	5993.7	6378.0	6655.3	6880.4	6476.8	5776.9
17.5°	4827.1	4831.2	4855.9	4936.9	5140.0	5639.6	6084.3	6471.3	7073.9	6770.6	5953.9
20°	5031.6	5059.0	5016.5	5028.8	5138.6	5512.0	5883.9	6286.1	7197.4	7065.6	6144.7
22.5°	5485.9	5476.3	5383.0	5328.1	5329.4	5590.2	5862.0	6199.6	7278.4	7352.5	6317.6
25°	6000.6	5989.6	5878.4	5756.3	5679.4	5802.9	6019.8	6291.5	7351.1	7614.6	6456.3
27.5°	6608.6	6574.3	6450.8	6294.3	6124.1	6177.6	6324.5	6540.0	7463.7	7872.7	6548.2
30°	7197.4	7237.2	7060.2	6874.9	6695.1	6662.1	6747.2	6942.1	7692.9	8174.6	6658.0
32.5°	7978.4	7964.6	7768.4	7526.8	7270.1	7245.4	7312.7	7491.1	8104.6	8591.9	6825.5
35°	8924.0	8926.8	8648.1	8321.5	7956.4	7890.5	8003.1	8176.0	8718.1	9157.3	7090.3
37.5°	9906.7	9902.6	9659.7	9289.1	8790.9	8697.5	8826.6	8955.6	9485.4	9927.3	7502.1
40°	10595.7	10623.2	10509.2	10314.4	9842.2	9614.4	9728.3	9817.5	10319.8	10833.2	8044.2
42.5°	10986.9	11028.1	11052.8	11169.4	10921.0	10678.1	10636.9	10683.6	11065.1	11674.5	8553.4
45°	11070.6	11125.5	11305.3	11737.6	11833.7	11765.1	11630.6	11518.0	11621.0	12271.5	8887.0
47.5°	10701.4	10797.5	11181.8	11938.0	12499.4	12714.9	12565.3	12393.7	11942.1	12425.3	8852.6
50°	9238.3	9350.9	10216.9	11529.0	12594.1	13379.2	13392.9	13139.0	11903.7	11981.9	8421.7
52.5°	7314.1	7390.9	7886.4	9773.6	11664.9	13351.7	13900.7	13628.9	11718.4	11427.5	7882.3
55°	4371.4	4494.9	4957.5	6448.0	9087.3	11833.7	13003.1	13134.8	11627.8	10962.2	7514.4
57.5°	1475.4	1535.8	1977.8	2847.9	5355.5	8664.6	10046.7	10582.0	10555.9	10251.2	6796.6
60°	702.7	716.4	805.7	1080.2	2143.8	4527.9	5947.1	6564.7	7127.4	7183.7	4228.7
62.5°	535.3	543.5	588.8	647.8	861.9	1907.8	2725.8	3197.9	3416.2	2931.7	1539.9
65°	447.4	454.3	488.6	525.7	586.1	826.2	1045.8	1206.4	1087.0	846.8	734.3
67.5°	373.3	378.8	404.9	444.7	485.9	553.1	580.6	597.0	625.9	702.7	675.3
70°	292.3	297.8	325.3	359.6	399.4	415.9	441.9	458.4	516.1	614.9	612.1
72.5°	225.1	232.0	247.1	269.0	302.0	318.4	347.2	366.5	399.4	479.0	511.9
75°	164.7	168.8	182.5	189.4	193.5	189.4	218.2	240.2	284.1	314.3	322.5
77.5°	67.3	75.5	72.7	72.7	86.5	104.3	119.4	133.1	163.3	181.2	182.5
80°	27.5	30.2	35.7	39.8	48.0	61.8	71.4	76.9	90.6	101.6	109.8
82.5°	16.5	17.8	20.6	22.0	27.5	35.7	41.2	45.3	56.3	67.3	71.4
85°	8.2	8.2	9.6	11.0	13.7	16.5	19.2	22.0	28.8	35.7	39.8
87.5°	1.4	1.4	1.4	2.7	4.1	5.5	6.9	8.2	9.6	11.0	13.7
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°	5171.6	5171.6	5171.6	5171.6	5171.6	5171.6	5171.6	5171.6	5171.6	5171.6	5171.6
2.5°	5174.3	5100.2	5013.8	4945.1	4865.5	4806.5	4722.8	4670.6	4621.2	4580.0	4549.8
5°	5179.8	5054.9	4875.1	4715.9	4551.2	4394.8	4234.2	4103.8	3987.1	3889.7	3881.4
7.5°	5211.4	5031.6	4750.2	4471.6	4150.4	3840.3	3530.1	3277.5	3085.4	2985.2	2964.6
10°	5264.9	5028.8	4622.6	4177.9	3630.3	3130.7	2762.8	2570.7	2459.5	2419.7	2406.0
12.5°	5321.2	5022.0	4459.3	3763.4	3003.0	2565.2	2363.4	2340.1	2360.7	2363.4	2362.1
15°	5389.8	5017.9	4253.4	3277.5	2544.6	2303.1	2316.8	2366.2	2414.2	2425.2	2425.2
17.5°	5473.5	5008.3	3973.4	2802.6	2257.8	2252.3	2325.0	2390.9	2436.2	2444.4	2444.4
20°	5561.4	4983.6	3628.9	2415.6	2141.1	2220.7	2298.9	2349.7	2381.3	2392.3	2393.6
22.5°	5621.8	4917.7	3232.2	2128.8	2068.4	2160.3	2216.6	2268.7	2268.7	2241.3	2233.1
25°	5634.1	4776.3	2802.6	1932.5	1981.9	2067.0	2124.6	2094.4	2038.2	2016.2	2014.8
27.5°	5588.8	4570.4	2378.5	1792.5	1877.6	1962.7	1953.1	1909.2	1884.4	1862.5	1870.7
30°	5533.9	4323.4	2010.7	1677.2	1756.8	1840.5	1807.6	1792.5	1774.6	1749.9	1755.4
32.5°	5496.9	4047.5	1728.0	1588.0	1675.8	1689.6	1712.9	1711.5	1695.0	1648.4	1645.6
35°	5507.9	3768.9	1538.6	1515.2	1608.6	1603.1	1647.0	1638.8	1524.8	1460.3	1456.2
37.5°	5595.7	3501.3	1427.4	1457.6	1501.5	1535.8	1574.3	1475.4	1435.6	1394.5	1397.2
40°	5763.1	3252.8	1367.0	1426.0	1437.0	1487.8	1398.6	1397.2	1379.4	1342.3	1340.9
42.5°	5952.5	3042.8	1325.8	1410.9	1395.8	1405.4	1310.7	1321.7	1320.3	1297.0	1290.2
45°	6067.8	2849.3	1292.9	1354.7	1358.8	1262.7	1233.9	1246.2	1253.1	1240.7	1239.4
47.5°	5948.4	2627.0	1258.6	1268.2	1303.9	1198.2	1162.5	1163.9	1176.2	1177.6	1172.1
50°	5613.5	2378.5	1217.4	1194.1	1170.7	1130.9	1098.0	1091.1	1103.5	1115.8	1120.0
52.5°	5181.2	2141.1	1148.8	1113.1	1058.2	1058.2	1043.1	1021.1	1037.6	1054.1	1059.6
55°	4864.1	1965.4	1051.3	1011.5	951.1	971.7	969.0	949.8	971.7	984.1	988.2
57.5°	4215.0	1579.7	925.1	912.7	861.9	886.6	892.1	867.4	856.4	859.2	863.3
60°	2502.1	1019.8	834.5	833.1	787.8	816.6	833.1	808.4	775.5	779.6	785.1
62.5°	1122.7	779.6	720.6	715.1	713.7	750.8	768.6	745.3	698.6	702.7	708.2
65°	706.8	673.9	625.9	625.9	647.8	679.4	693.1	673.9	620.4	613.5	619.0
67.5°	656.1	627.2	577.8	568.2	579.2	605.3	606.6	569.6	538.0	532.5	532.5
70°	588.8	566.8	518.8	499.6	495.5	494.1	490.0	480.4	459.8	454.3	457.0
72.5°	487.2	472.1	441.9	421.4	410.4	409.0	392.5	384.3	366.5	363.7	362.3
75°	322.5	326.7	326.7	323.9	314.3	310.2	292.3	284.1	263.5	255.3	253.9
77.5°	190.8	194.9	200.4	201.8	200.4	200.4	183.9	174.3	153.7	142.7	140.0
80°	116.7	119.4	122.2	126.3	120.8	116.7	101.6	92.0	82.4	75.5	74.1
82.5°	75.5	78.2	79.6	82.4	79.6	74.1	61.8	56.3	49.4	43.9	42.5
85°	42.5	43.9	46.7	46.7	42.5	38.4	31.6	27.5	23.3	20.6	20.6
87.5°	15.1	15.1	15.1	16.5	13.7	12.4	8.2	5.5	4.1	4.1	4.1
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)