

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: P638222

Luminaire Tested: GWS-SA4E-735-U-T3-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638222
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-25)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4E-735-U-T3-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III 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: 25761.6 lumens
Efficiency: N/A
Efficacy: 127.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

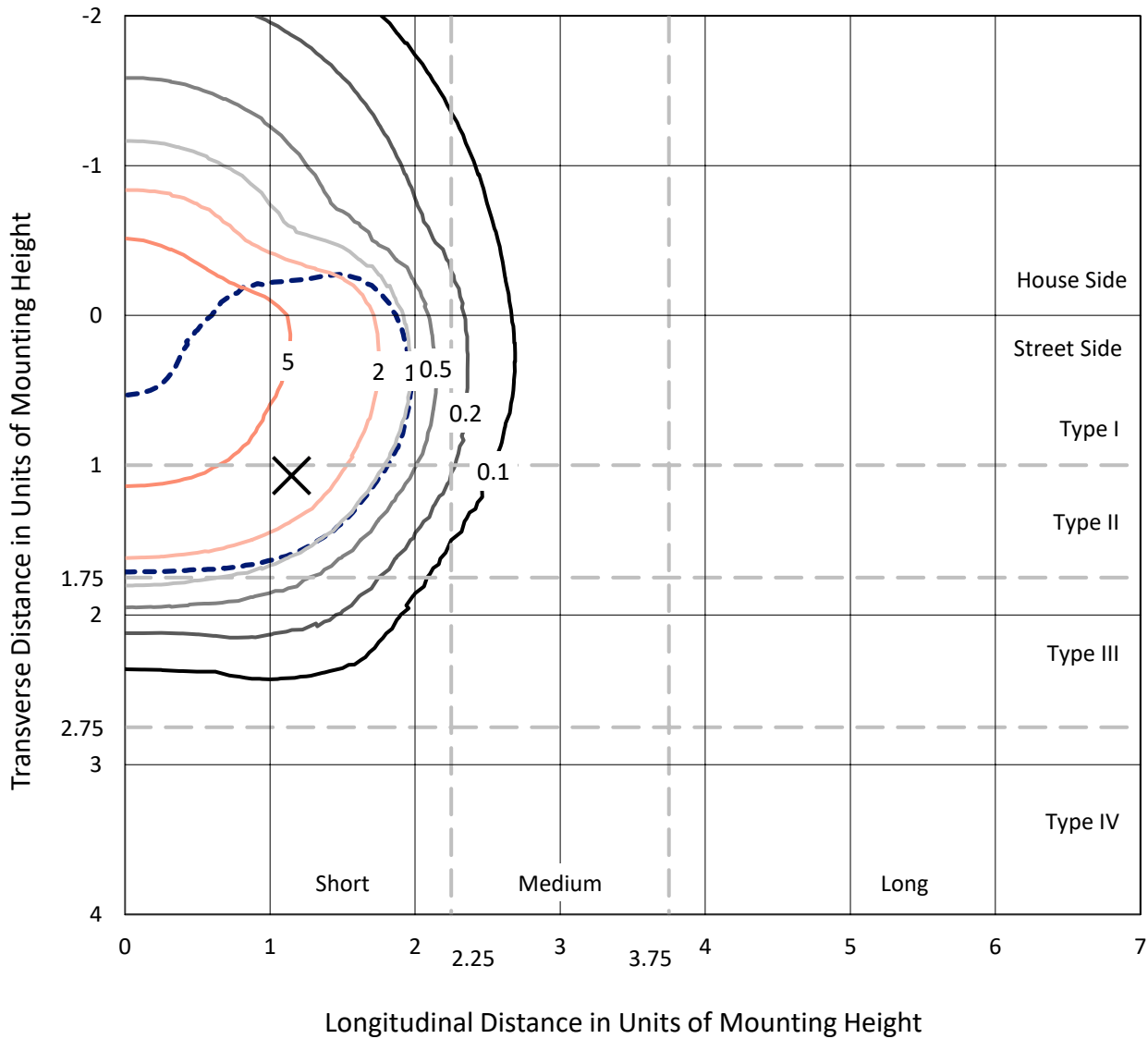
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

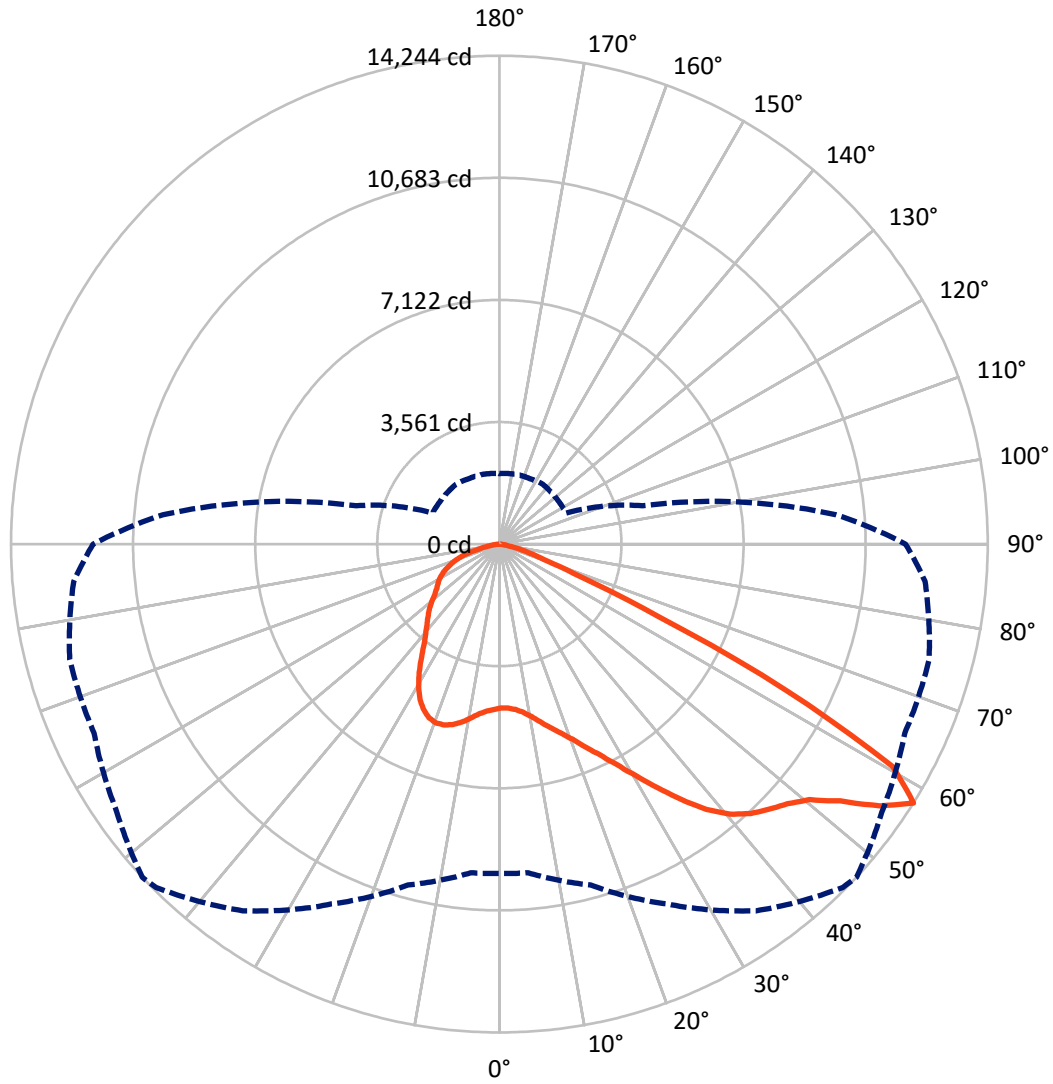
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8153.5	0.0	8153.5
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	17608.1	0.0	17608.1
	% Fixture	68.4	0.0	68.4
Total	Lumens	25761.6	0.0	25761.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	471.2	1.8
10°-20°	1549.9	6.0
20°-30°	2790.7	10.8
30°-40°	4215.0	16.4
40°-50°	5676.0	22.0
50°-60°	6820.5	26.5
60°-70°	3321.7	12.9
70°-80°	818.3	3.2
80°-90°	98.3	0.4
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°	25761.6	100.0
0°-180°	25761.6	100.0

Coefficient of Utilization



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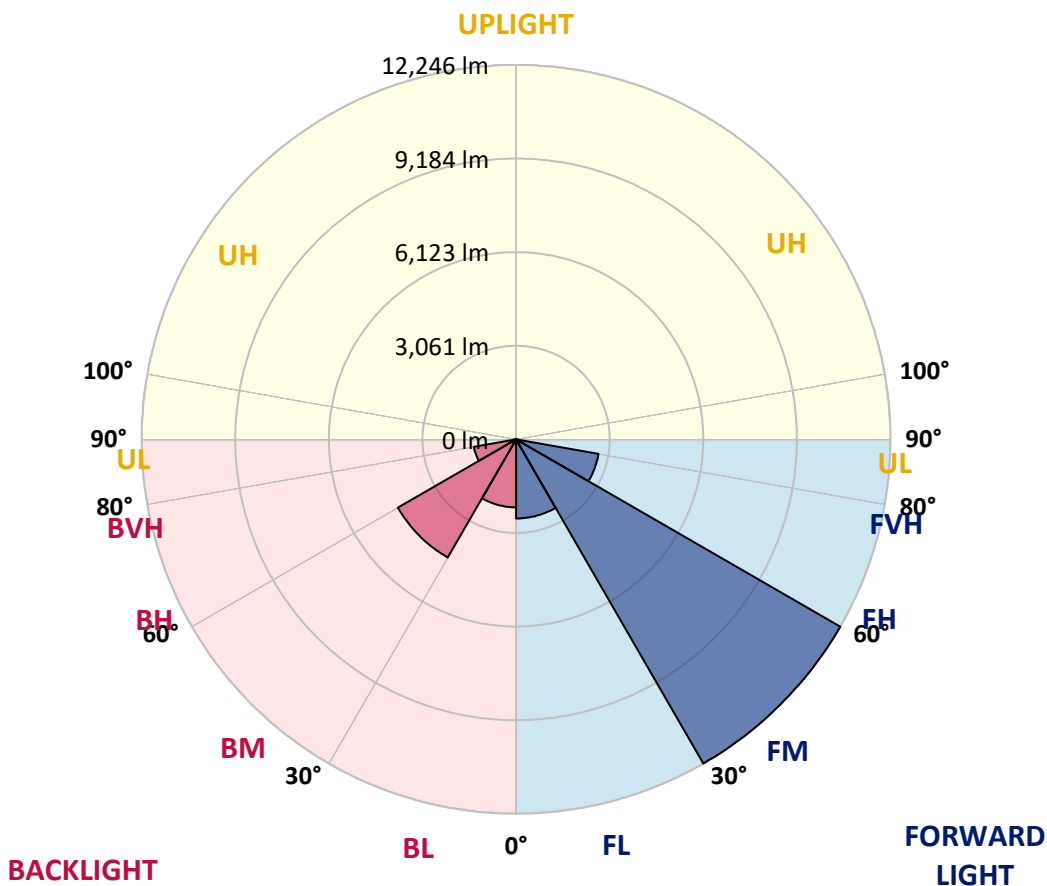
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2587.6	10.0			
FM (30°-60°)	12245.9	47.5			
FH (60°-80°)	2737.7	10.6			G2/5000
FVH (80°-90°)	37.0	0.1			G1/100
BL (0°-30°)	2224.1	8.6	B3/2500		
BM (30°-60°)	4465.6	17.3	B3/5000		
BH (60°-80°)	1402.4	5.4	B3/2500		G3/2500
BVH (80°-90°)	61.4	0.2			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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	4777.5	4777.5	4777.5	4777.5	4777.5	4777.5	4777.5	4777.5	4777.5	4777.5	4777.5
2.5°	4768.9	4766.7	4766.7	4779.7	4779.7	4784.0	4790.5	4797.0	4799.2	4788.3	4764.5
5°	4820.8	4820.8	4820.8	4831.6	4831.6	4835.9	4844.6	4846.8	4844.6	4827.3	4803.5
7.5°	4903.0	4903.0	4905.2	4918.2	4929.0	4935.5	4950.6	4948.5	4942.0	4913.8	4883.5
10°	5037.2	5043.7	5050.2	5065.3	5086.9	5102.1	5112.9	5112.9	5104.2	5061.0	5022.0
12.5°	5227.6	5236.2	5242.7	5255.7	5273.0	5299.0	5322.8	5322.8	5312.0	5257.9	5199.5
15°	5450.4	5459.1	5456.9	5461.3	5493.7	5530.5	5550.0	5563.0	5567.3	5491.6	5400.7
17.5°	5705.8	5714.4	5705.8	5692.8	5697.1	5755.5	5790.2	5837.8	5865.9	5764.2	5619.2
20°	5937.3	5928.6	5928.6	5937.3	5950.3	6021.7	6073.6	6151.5	6186.1	6062.8	5837.8
22.5°	6181.8	6201.3	6192.6	6192.6	6244.5	6363.5	6426.3	6528.0	6564.8	6404.7	6101.7
25°	6497.7	6515.0	6510.7	6515.0	6575.6	6744.4	6807.1	6995.4	7032.1	6802.8	6393.8
27.5°	6843.9	6872.0	6885.0	6880.7	6978.0	7198.7	7276.6	7538.5	7605.5	7248.5	6705.4
30°	7293.9	7324.2	7335.1	7330.7	7445.4	7746.2	7834.9	8133.5	8228.7	7776.5	7101.4
32.5°	7815.4	7845.7	7878.2	7891.1	8038.3	8345.5	8473.2	8782.6	8918.9	8386.6	7579.6
35°	8332.5	8358.5	8421.3	8523.0	8724.2	9037.9	9150.4	9455.5	9587.5	9020.6	8157.3
37.5°	8903.8	8921.1	8975.2	9115.8	9405.8	9704.3	9816.9	10109.0	10124.1	9632.9	8810.7
40°	9529.1	9529.1	9518.3	9656.7	9959.7	10260.4	10357.8	10526.6	10437.9	10104.6	9446.9
42.5°	10059.2	10050.5	10059.2	10189.0	10414.1	10658.6	10742.9	10710.5	10598.0	10466.0	10022.4
45°	10537.4	10543.9	10621.8	10721.3	10838.1	10983.1	11032.9	10849.0	10747.3	10755.9	10483.3
47.5°	10861.9	10868.4	11050.2	11216.8	11288.2	11333.6	11312.0	11056.7	11004.8	11102.1	10838.1
50°	10905.2	10939.8	11253.6	11595.5	11772.9	11779.4	11718.8	11407.2	11392.1	11502.4	11028.6
52.5°	10913.9	10948.5	11340.1	11956.8	12417.7	12515.0	12445.8	12121.2	11963.3	11852.9	11262.2
55°	10881.4	10920.4	11353.1	12199.1	13081.9	13471.4	13477.9	13019.2	12515.0	12441.5	11928.7
57.5°	9607.0	9622.1	10292.9	11582.5	13056.0	14159.5	14243.9	13620.7	13045.2	12975.9	12463.1
60°	6692.4	6753.0	7482.2	9185.1	10968.0	12913.2	13185.8	13004.0	12618.9	12114.7	10693.2
62.5°	3351.6	3403.6	4134.9	5744.7	7564.4	9100.7	9392.8	9585.3	9676.2	9135.3	7281.0
65°	1443.2	1482.2	1936.5	3001.1	4282.0	5024.2	5125.9	5357.4	5924.3	5286.0	3922.9
67.5°	965.0	991.0	1222.5	1830.5	2522.9	2570.5	2555.4	2605.1	2728.5	2252.4	1772.1
70°	740.0	761.6	917.4	1341.5	1813.2	1551.4	1469.2	1332.9	1447.5	1475.7	1436.7
72.5°	536.6	553.9	670.8	915.3	1136.0	991.0	978.0	1047.2	1203.0	1246.3	1222.5
75°	346.2	354.9	426.3	502.0	586.4	636.1	662.1	787.6	945.6	978.0	949.9
77.5°	231.5	238.0	279.1	322.4	333.2	335.4	344.0	400.3	508.5	569.1	562.6
80°	121.2	121.2	136.3	136.3	155.8	186.1	194.7	231.5	281.3	311.6	313.7
82.5°	47.6	49.8	58.4	64.9	77.9	95.2	101.7	121.2	147.1	168.8	188.2
85°	19.5	21.6	23.8	28.1	34.6	43.3	45.4	51.9	69.2	86.5	97.4
87.5°	0.0	0.0	2.2	2.2	4.3	6.5	6.5	8.7	10.8	19.5	26.0
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°	4777.5	4777.5	4777.5	4777.5	4777.5	4777.5	4777.5	4777.5	4777.5	4777.5	4777.5
2.5°	4792.7	4764.5	4792.7	4801.3	4825.1	4833.8	4818.6	4816.5	4816.5	4794.8	4788.3
5°	4825.1	4799.2	4827.3	4840.3	4874.9	4896.5	4900.9	4918.2	4929.0	4920.3	4918.2
7.5°	4905.2	4872.7	4903.0	4922.5	4967.9	5002.6	5017.7	5056.6	5084.8	5080.4	5078.3
10°	5045.8	5002.6	5037.2	5069.6	5119.4	5160.5	5162.7	5184.3	5212.4	5203.8	5199.5
12.5°	5208.1	5167.0	5205.9	5238.4	5296.8	5314.1	5286.0	5277.3	5281.7	5270.9	5262.2
15°	5407.2	5348.8	5383.4	5420.2	5452.6	5433.1	5372.6	5348.8	5346.6	5331.4	5322.8
17.5°	5606.2	5532.7	5558.6	5578.1	5563.0	5502.4	5426.6	5385.5	5366.1	5335.8	5327.1
20°	5803.1	5710.1	5705.8	5690.6	5621.4	5511.0	5409.3	5327.1	5277.3	5236.2	5221.1
22.5°	6028.2	5898.3	5833.4	5764.2	5612.7	5433.1	5279.5	5162.7	5082.6	5030.7	5013.4
25°	6270.5	6086.6	5952.4	5814.0	5526.2	5266.5	5052.3	4892.2	4797.0	4740.7	4721.3
27.5°	6510.7	6257.5	6056.3	5820.4	5353.1	5026.4	4738.6	4522.2	4427.0	4381.6	4366.4
30°	6835.2	6484.7	6179.6	5736.1	5125.9	4693.1	4334.0	4115.4	4052.7	4020.2	4007.2
32.5°	7209.6	6772.5	6344.1	5558.6	4835.9	4303.7	3925.0	3773.6	3730.3	3667.5	3665.4
35°	7702.9	7183.6	6499.9	5296.8	4470.3	3886.1	3611.3	3503.1	3425.2	3325.7	3317.0
37.5°	8278.4	7696.4	6584.2	4963.6	4044.0	3542.0	3377.6	3256.4	3130.9	2998.9	2981.6
40°	8873.5	8295.8	6590.7	4569.8	3626.4	3314.8	3176.4	3018.4	2862.6	2715.5	2696.0
42.5°	9498.8	8854.0	6476.1	4115.4	3284.5	3117.9	2977.3	2778.2	2603.0	2503.4	2492.6
45°	10057.0	9304.1	6216.4	3637.2	3031.4	2953.5	2773.9	2559.7	2466.7	2395.3	2380.1
47.5°	10496.3	9602.7	5865.9	3208.8	2825.8	2784.7	2551.0	2440.7	2369.3	2304.4	2289.2
50°	10712.6	9669.7	5409.3	2860.5	2635.4	2585.7	2425.5	2341.2	2293.6	2241.6	2228.6
52.5°	10981.0	9745.5	5015.5	2568.4	2449.3	2382.3	2321.7	2254.6	2220.0	2187.5	2176.7
55°	11597.6	10031.1	4807.8	2334.7	2271.9	2241.6	2233.0	2176.7	2165.9	2144.3	2124.8
57.5°	11848.6	9847.2	4316.7	2144.3	2131.3	2135.6	2157.2	2105.3	2094.5	2068.5	2055.5
60°	9529.1	7443.2	2923.2	1979.8	2014.4	2042.6	2064.2	2012.3	1997.1	1992.8	1975.5
62.5°	6106.1	4578.5	2040.4	1826.2	1878.1	1912.7	1925.7	1876.0	1865.1	1899.8	1901.9
65°	3178.5	2494.8	1655.3	1661.7	1705.0	1757.0	1782.9	1765.6	1761.3	1798.1	1800.2
67.5°	1622.8	1525.4	1443.2	1467.0	1501.6	1568.7	1629.3	1705.0	1731.0	1735.3	1737.5
70°	1382.6	1339.4	1298.2	1313.4	1350.2	1387.0	1445.4	1482.2	1438.9	1428.1	1423.7
72.5°	1177.1	1144.6	1125.1	1142.5	1161.9	1155.4	1138.1	1155.4	1161.9	1164.1	1166.3
75°	915.3	891.5	876.3	878.5	878.5	854.7	822.2	802.7	781.1	763.8	763.8
77.5°	560.4	564.7	579.9	577.7	575.6	566.9	534.4	517.1	465.2	450.1	450.1
80°	320.2	326.7	341.9	346.2	346.2	335.4	302.9	283.4	259.6	248.8	246.7
82.5°	194.7	203.4	212.0	216.4	218.5	205.6	177.4	162.3	149.3	138.5	138.5
85°	101.7	106.0	114.7	116.8	110.4	97.4	82.2	75.7	62.7	60.6	60.6
87.5°	28.1	30.3	34.6	28.1	26.0	19.5	10.8	8.7	4.3	2.2	2.2
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)