

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: P635713

Luminaire Tested: GWS-SA3E-735-U-AFL-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P635713
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-SA3E-735-U-AFL-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (48) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19677.3 lumens
Efficiency: N/A
Efficacy: 123.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

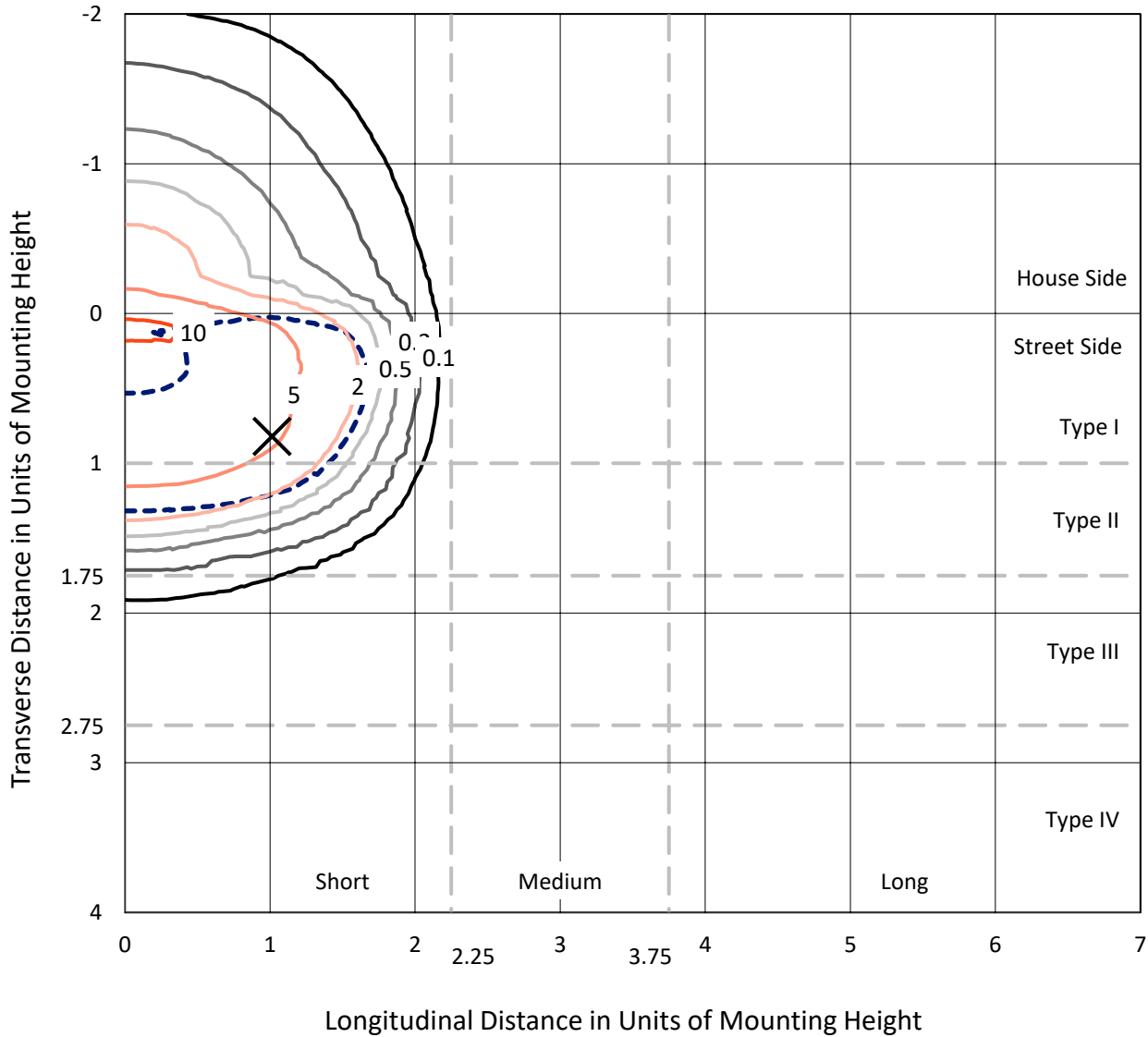
Input Watts (W): 159.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

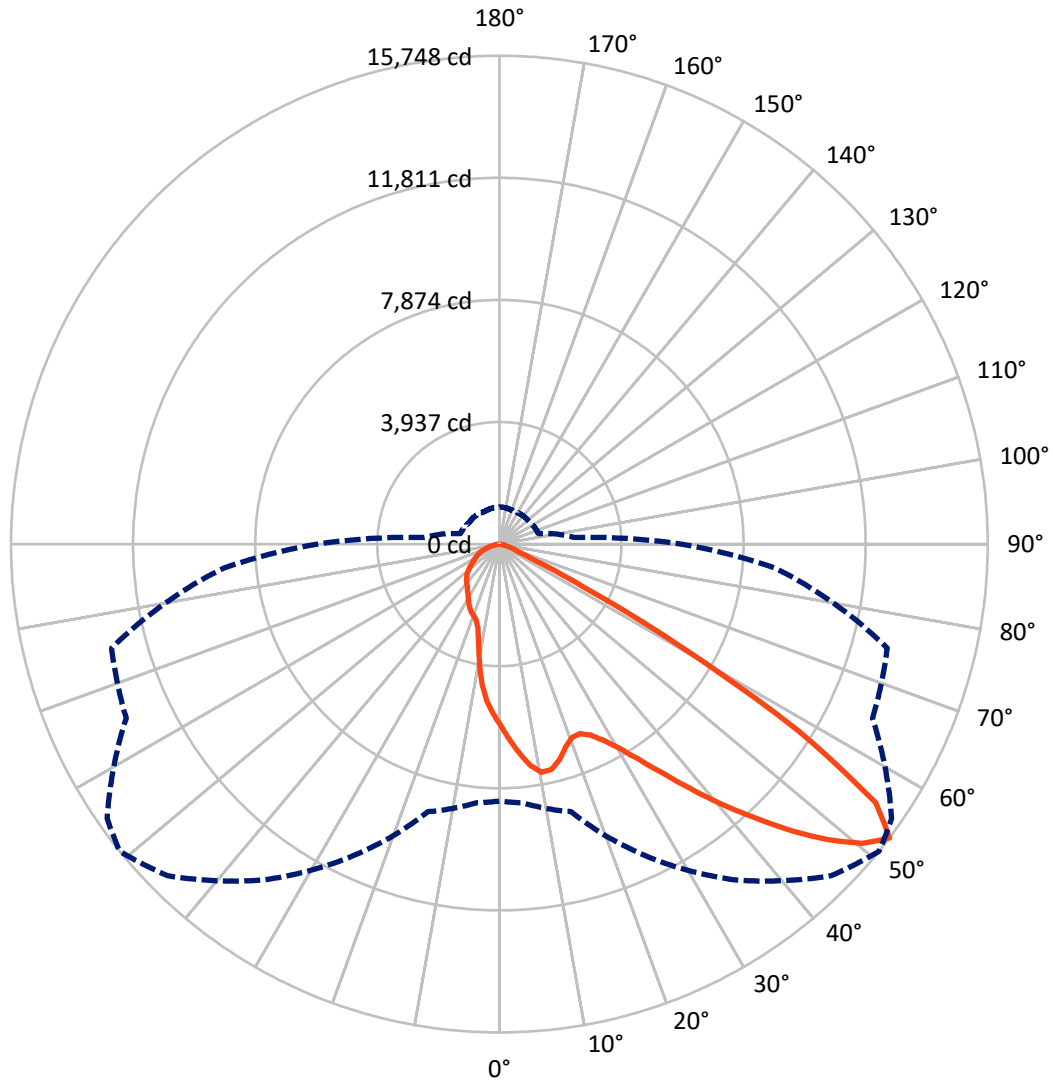
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.4 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	3834.0	0.0	3834.0
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	15843.3	0.0	15843.3
	% Fixture	80.5	0.0	80.5
Total	Lumens	19677.3	0.0	19677.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	546.7	2.8
10°-20°	1420.6	7.2
20°-30°	2309.8	11.7
30°-40°	3660.5	18.6
40°-50°	5520.8	28.1
50°-60°	4775.9	24.3
60°-70°	1082.7	5.5
70°-80°	319.3	1.6
80°-90°	41.1	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°	19677.3	100.0
0°-180°	19677.3	100.0

Coefficient of Utilization



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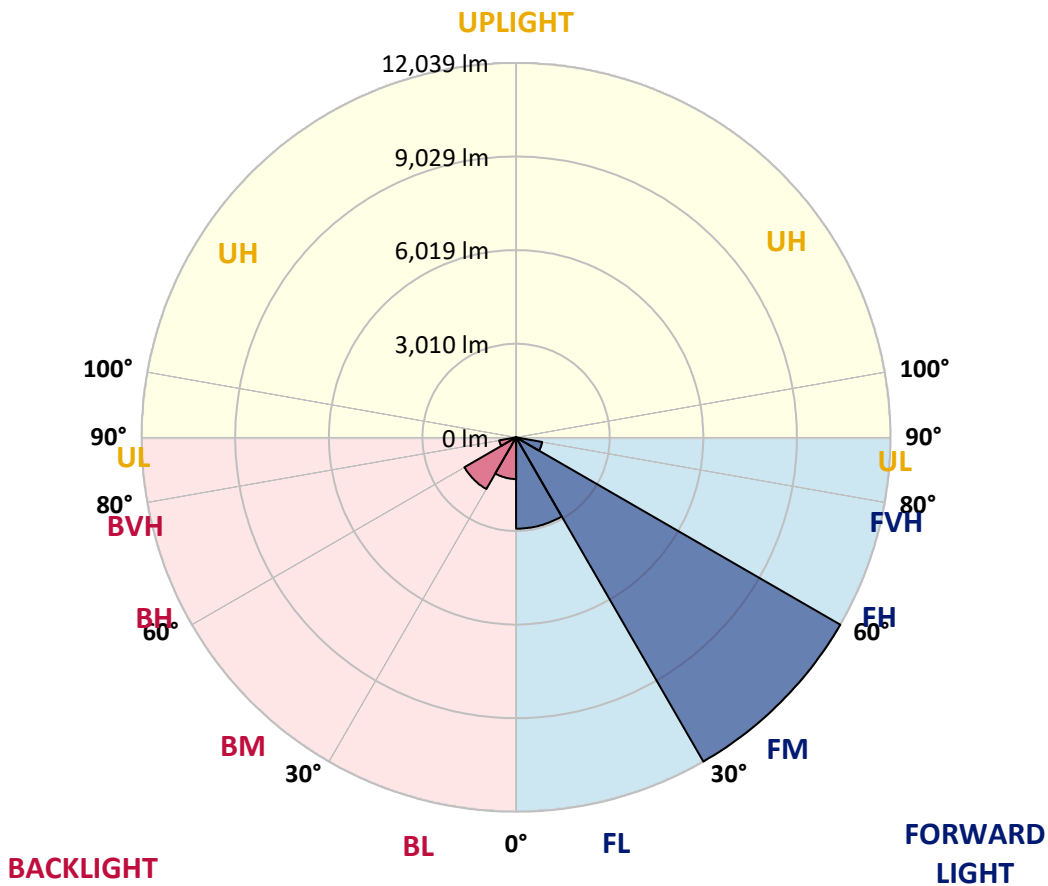
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2936.9	14.9			
FM (30°-60°)	12038.9	61.2			
FH (60°-80°)	852.1	4.3			G1/1800
FVH (80°-90°)	15.5	0.1			G1/100
BL (0°-30°)	1340.2	6.8	B3/2500		
BM (30°-60°)	1918.3	9.7	B2/2500		
BH (60°-80°)	549.9	2.8	B2/1000		G2/1000
BVH (80°-90°)	25.6	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	51°	55°	65°	75°	85°
0°	5858.9	5858.9	5858.9	5858.9	5858.9	5858.9	5858.9	5858.9	5858.9	5858.9	5858.9
2.5°	6529.1	6566.4	6508.9	6487.1	6451.3	6389.1	6317.6	6297.4	6143.5	6042.4	5928.9
5°	7185.3	7205.5	7158.8	7112.2	7023.5	6913.1	6774.8	6745.2	6465.3	6233.6	5992.6
7.5°	7331.4	7323.6	7364.1	7390.5	7379.6	7336.1	7213.2	7155.7	6821.4	6454.4	6098.4
10°	6753.0	6709.5	6858.7	7036.0	7249.0	7494.7	7480.7	7476.0	7185.3	6751.4	6233.6
12.5°	5986.4	5964.6	6085.9	6308.3	6711.0	7255.2	7458.9	7617.5	7513.3	7034.4	6384.5
15°	5547.9	5540.2	5622.6	5782.7	6103.0	6790.3	7225.7	7539.8	7794.8	7337.6	6544.6
17.5°	5468.6	5473.3	5501.3	5593.0	5823.2	6389.1	6892.9	7331.4	8014.0	7670.4	6745.2
20°	5700.3	5731.4	5683.2	5697.2	5821.6	6244.5	6665.9	7121.5	8154.0	8004.7	6961.3
22.5°	6215.0	6204.1	6098.4	6036.2	6037.7	6333.2	6641.0	7023.5	8245.7	8329.7	7157.3
25°	6798.1	6785.6	6659.7	6521.3	6434.2	6574.2	6819.9	7127.7	8328.1	8626.7	7314.3
27.5°	7486.9	7448.0	7308.1	7130.8	6938.0	6998.7	7165.0	7409.2	8455.6	8919.0	7418.5
30°	8154.0	8199.1	7998.5	7788.6	7584.9	7547.5	7644.0	7864.8	8715.3	9261.1	7542.9
32.5°	9038.7	9023.2	8800.8	8527.1	8236.4	8208.4	8284.6	8486.7	9181.8	9733.8	7732.6
35°	10110.0	10113.2	9797.5	9427.4	9013.8	8939.2	9066.7	9262.6	9876.8	10374.4	8032.7
37.5°	11223.4	11218.7	10943.5	10523.7	9959.2	9853.5	9999.6	10145.8	10746.0	11246.7	8499.2
40°	12003.9	12035.0	11906.0	11685.2	11150.3	10892.2	11021.2	11122.3	11691.4	12272.9	9113.3
42.5°	12447.1	12493.7	12521.7	12653.9	12372.4	12097.2	12050.6	12103.4	12535.7	13226.1	9690.2
45°	12541.9	12604.1	12807.8	13297.6	13406.5	13328.7	13176.3	13048.8	13165.5	13902.5	10068.1
47.5°	12123.7	12232.5	12667.9	13524.6	14160.6	14404.7	14235.2	14040.9	13529.3	14076.6	10029.2
50°	10466.1	10593.6	11574.8	13061.3	14267.9	15157.3	15172.8	14885.2	13485.8	13574.4	9540.9
52.5°	8286.1	8373.2	8934.5	11072.5	13215.2	15126.2	15748.2	15440.3	13275.9	12946.2	8929.9
55°	4952.4	5092.3	5616.3	7305.0	10295.1	13406.5	14731.3	14880.5	13173.2	12419.1	8513.2
57.5°	1671.5	1739.9	2240.6	3226.4	6067.3	9816.2	11382.0	11988.4	11958.8	11613.6	7699.9
60°	796.1	811.7	912.7	1223.7	2428.8	5129.7	6737.4	7437.2	8074.7	8138.4	4790.7
62.5°	606.4	615.7	667.1	733.9	976.5	2161.3	3088.1	3622.9	3870.2	3321.3	1744.6
65°	506.9	514.7	553.5	595.5	663.9	936.1	1184.8	1366.8	1231.5	959.4	831.9
67.5°	422.9	429.2	458.7	503.8	550.4	626.6	657.7	676.4	709.0	796.1	765.0
70°	331.2	337.4	368.5	407.4	452.5	471.1	500.7	519.3	584.6	696.6	693.5
72.5°	255.0	262.8	279.9	304.8	342.1	360.7	393.4	415.2	452.5	542.7	580.0
75°	186.6	191.3	206.8	214.6	219.2	214.6	247.2	272.1	321.9	356.1	365.4
77.5°	76.2	85.5	82.4	82.4	98.0	118.2	135.3	150.8	185.0	205.2	206.8
80°	31.1	34.2	40.4	45.1	54.4	70.0	80.9	87.1	102.6	115.1	124.4
82.5°	18.7	20.2	23.3	24.9	31.1	40.4	46.6	51.3	63.8	76.2	80.9
85°	9.3	9.3	10.9	12.4	15.5	18.7	21.8	24.9	32.7	40.4	45.1
87.5°	1.6	1.6	1.6	3.1	4.7	6.2	7.8	9.3	10.9	12.4	15.5
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°	5858.9	5858.9	5858.9	5858.9	5858.9	5858.9	5858.9	5858.9	5858.9	5858.9	5858.9
2.5°	5862.0	5778.1	5680.1	5602.4	5512.2	5445.3	5350.5	5291.4	5235.4	5188.7	5154.5
5°	5868.2	5726.7	5523.1	5342.7	5156.1	4978.8	4796.9	4649.2	4517.0	4406.6	4397.3
7.5°	5904.0	5700.3	5381.6	5065.9	4702.1	4350.6	3999.2	3713.1	3495.4	3381.9	3358.6
10°	5964.6	5697.2	5236.9	4733.2	4112.7	3546.8	3130.0	2912.4	2786.4	2741.3	2725.8
12.5°	6028.4	5689.4	5051.9	4263.6	3402.2	2906.1	2677.6	2651.1	2674.5	2677.6	2676.0
15°	6106.1	5684.8	4818.7	3713.1	2882.8	2609.1	2624.7	2680.7	2735.1	2747.5	2747.5
17.5°	6201.0	5673.9	4501.5	3175.1	2557.8	2551.6	2634.0	2708.7	2760.0	2769.3	2769.3
20°	6300.5	5645.9	4111.2	2736.6	2425.7	2515.8	2604.5	2662.0	2697.8	2710.2	2711.8
22.5°	6368.9	5571.3	3661.8	2411.7	2343.3	2447.4	2511.2	2570.3	2570.3	2539.2	2529.8
25°	6382.9	5411.1	3175.1	2189.3	2245.3	2341.7	2407.0	2372.8	2309.0	2284.2	2282.6
27.5°	6331.6	5177.9	2694.7	2030.7	2127.1	2223.5	2212.6	2162.9	2134.9	2110.0	2119.3
30°	6269.4	4898.0	2277.9	1900.1	1990.3	2085.1	2047.8	2030.7	2010.5	1982.5	1988.7
32.5°	6227.4	4585.4	1957.6	1799.0	1898.5	1914.1	1940.5	1939.0	1920.3	1867.5	1864.3
35°	6239.9	4269.8	1743.1	1716.6	1822.4	1816.1	1865.9	1856.6	1727.5	1654.4	1649.8
37.5°	6339.4	3966.6	1617.1	1651.3	1701.1	1739.9	1783.5	1671.5	1626.4	1579.8	1582.9
40°	6529.1	3685.1	1548.7	1615.6	1628.0	1685.5	1584.5	1582.9	1562.7	1520.7	1519.2
42.5°	6743.7	3447.2	1502.0	1598.5	1581.3	1592.2	1484.9	1497.4	1495.8	1469.4	1461.6
45°	6874.3	3228.0	1464.7	1534.7	1539.4	1430.5	1397.9	1411.9	1419.6	1405.6	1404.1
47.5°	6739.0	2976.1	1425.9	1436.7	1477.2	1357.4	1317.0	1318.6	1332.6	1334.1	1327.9
50°	6359.6	2694.7	1379.2	1352.8	1326.3	1281.2	1243.9	1236.2	1250.2	1264.1	1268.8
52.5°	5869.8	2425.7	1301.5	1261.0	1198.8	1198.8	1181.7	1156.9	1175.5	1194.2	1200.4
55°	5510.6	2226.6	1191.1	1146.0	1077.6	1100.9	1097.8	1076.0	1100.9	1114.9	1119.5
57.5°	4775.1	1789.7	1048.0	1034.0	976.5	1004.5	1010.7	982.7	970.3	973.4	978.0
60°	2834.6	1155.3	945.4	943.8	892.5	925.2	943.8	915.8	878.5	883.2	889.4
62.5°	1271.9	883.2	816.3	810.1	808.6	850.5	870.8	844.3	791.5	796.1	802.3
65°	800.8	763.5	709.0	709.0	733.9	769.7	785.2	763.5	702.8	695.0	701.3
67.5°	743.2	710.6	654.6	643.7	656.2	685.7	687.3	645.3	609.5	603.3	603.3
70°	667.1	642.2	587.8	566.0	561.3	559.8	555.1	544.2	520.9	514.7	517.8
72.5°	552.0	534.9	500.7	477.4	464.9	463.4	444.7	435.4	415.2	412.1	410.5
75°	365.4	370.1	370.1	367.0	356.1	351.4	331.2	321.9	298.5	289.2	287.7
77.5°	216.1	220.8	227.0	228.6	227.0	227.0	208.4	197.5	174.2	161.7	158.6
80°	132.2	135.3	138.4	143.1	136.8	132.2	115.1	104.2	93.3	85.5	84.0
82.5°	85.5	88.6	90.2	93.3	90.2	84.0	70.0	63.8	56.0	49.8	48.2
85°	48.2	49.8	52.9	52.9	48.2	43.5	35.8	31.1	26.4	23.3	23.3
87.5°	17.1	17.1	17.1	18.7	15.5	14.0	9.3	6.2	4.7	4.7	4.7
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)