

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: P635878

Luminaire Tested: GWS-SA3E-760-U-AFL-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P635878
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-760-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) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20128.2 lumens
Efficiency: N/A
Efficacy: 126.4 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

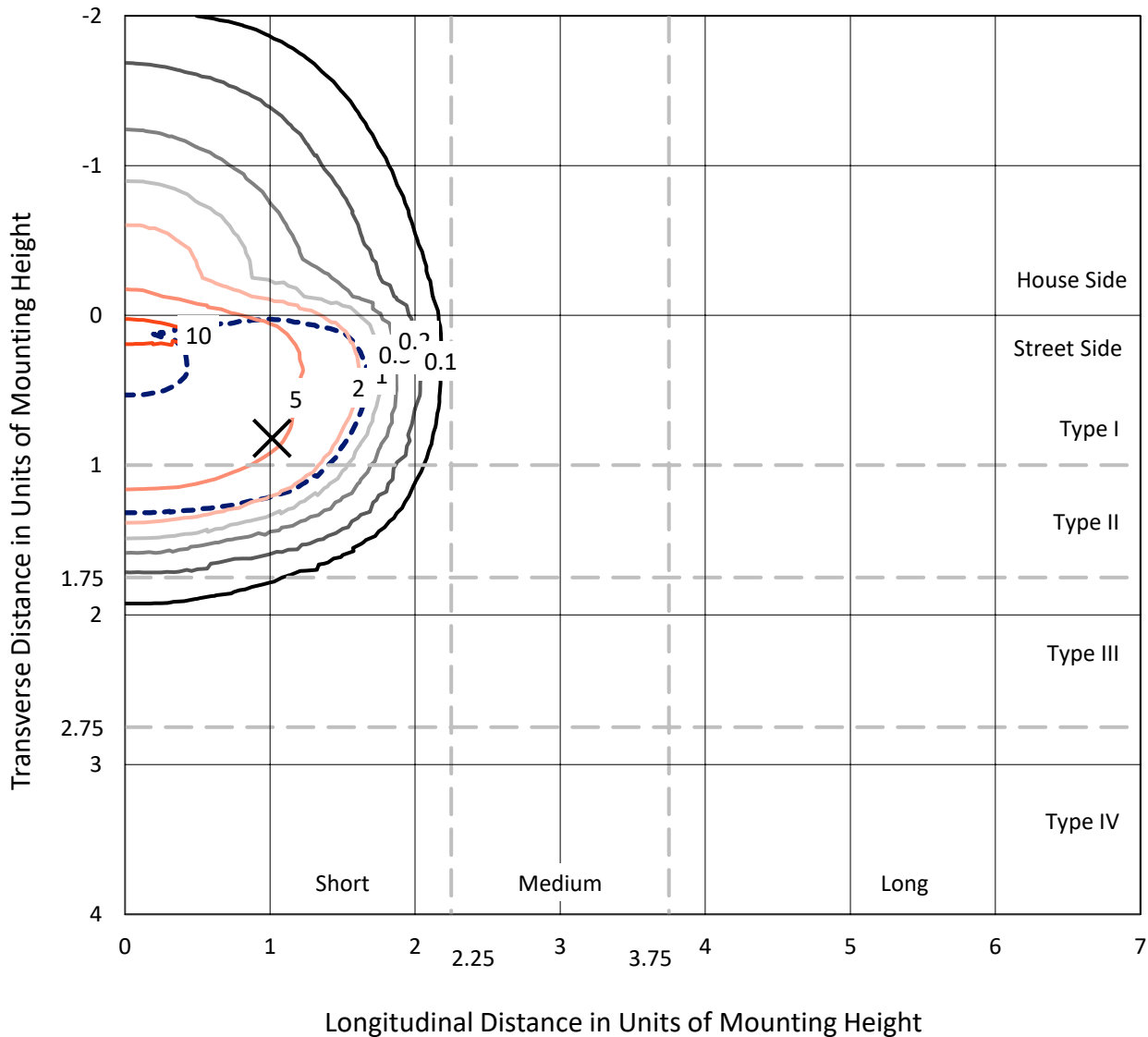


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Iso-Footcandle Lines of Horizontal Illumination

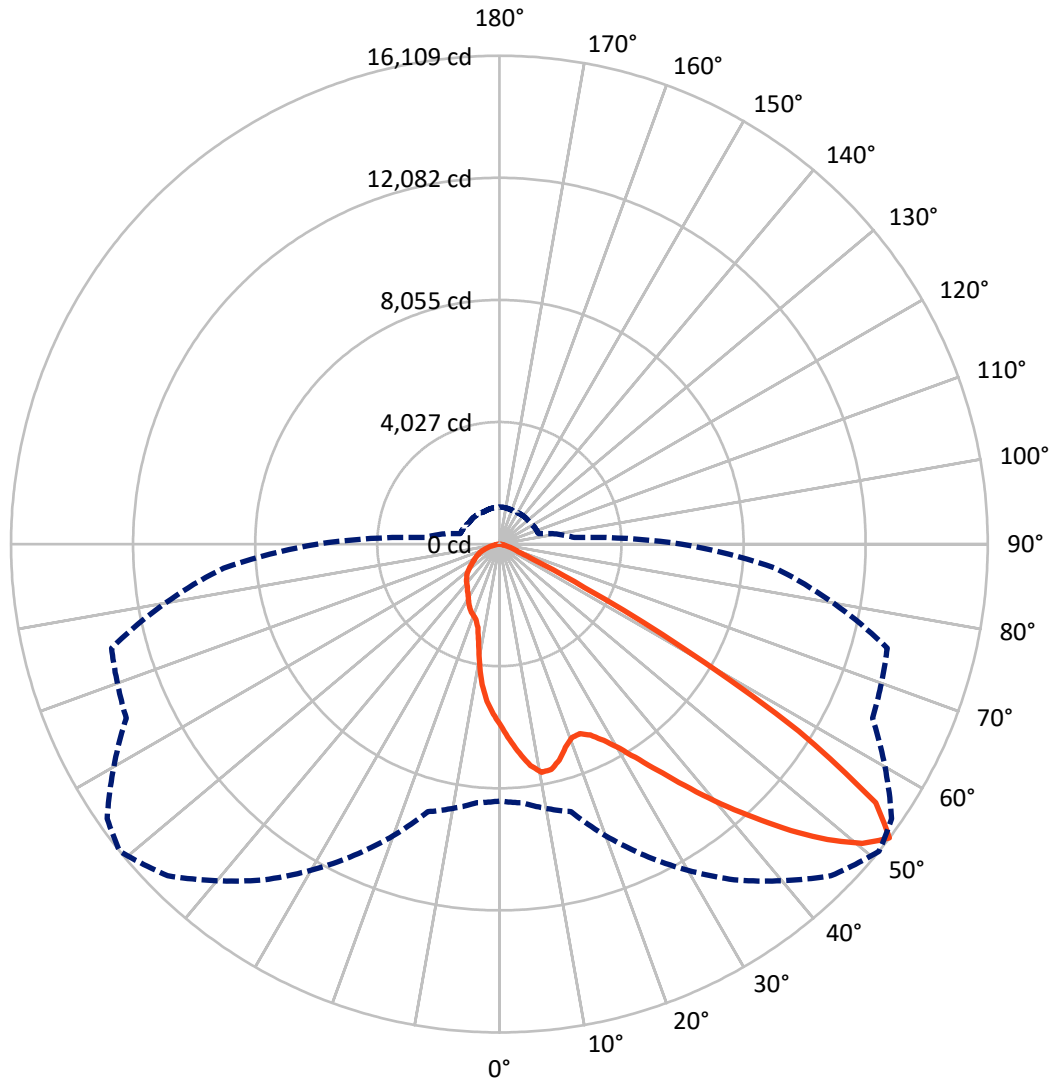
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.7 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	3921.8	0.0	3921.8
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	16206.4	0.0	16206.4
	% Fixture	80.5	0.0	80.5
Total	Lumens	20128.2	0.0	20128.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	559.2	2.8
10°-20°	1453.1	7.2
20°-30°	2362.7	11.7
30°-40°	3744.3	18.6
40°-50°	5647.3	28.1
50°-60°	4885.3	24.3
60°-70°	1107.5	5.5
70°-80°	326.6	1.6
80°-90°	42.1	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°	20128.2	100.0
0°-180°	20128.2	100.0

Coefficient of Utilization



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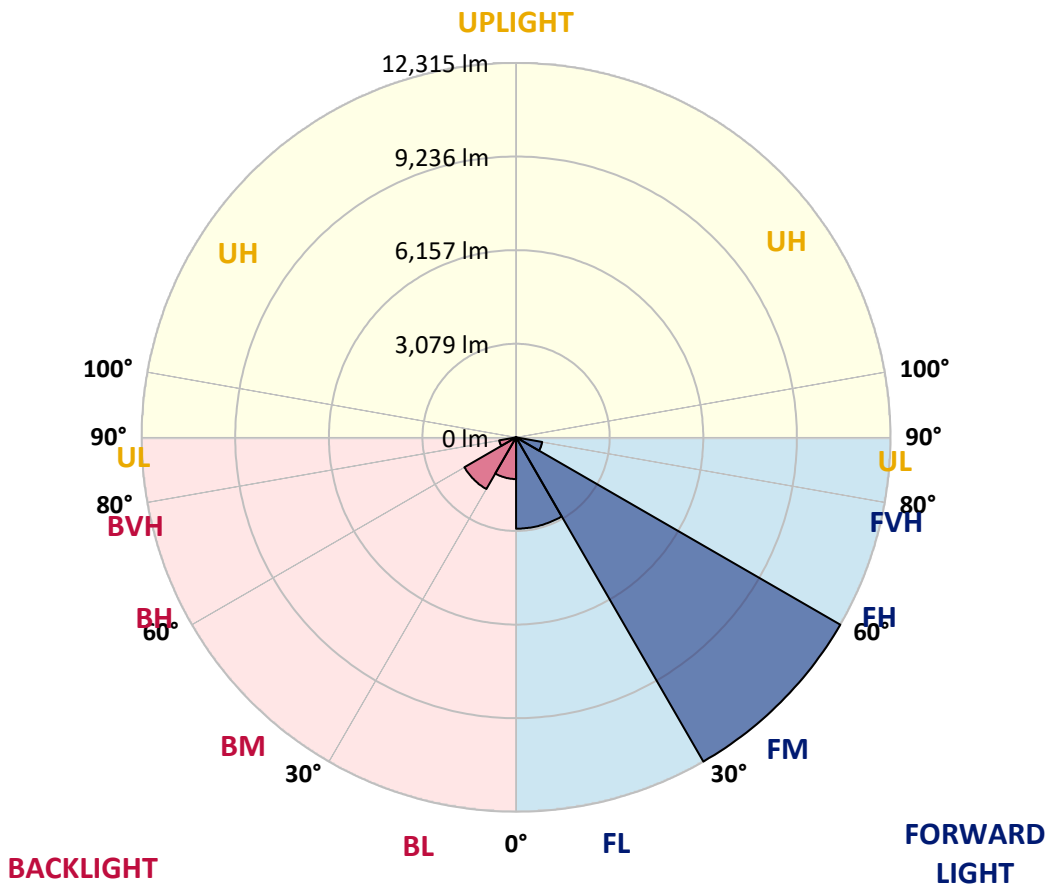
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3004.2	14.9			
FM (30°-60°)	12314.7	61.2			
FH (60°-80°)	871.6	4.3			G1/1800
FVH (80°-90°)	15.9	0.1			G1/100
BL (0°-30°)	1370.9	6.8	B3/2500		
BM (30°-60°)	1962.2	9.7	B2/2500		
BH (60°-80°)	562.5	2.8	B2/1000		G2/1000
BVH (80°-90°)	26.2	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	5993.2	5993.2	5993.2	5993.2	5993.2	5993.2	5993.2	5993.2	5993.2	5993.2	5993.2
2.5°	6678.7	6716.9	6658.0	6635.7	6599.2	6535.5	6462.4	6441.7	6284.2	6180.9	6064.7
5°	7349.9	7370.6	7322.9	7275.1	7184.5	7071.6	6930.0	6899.8	6613.5	6376.5	6130.0
7.5°	7499.4	7491.5	7532.8	7559.9	7548.7	7504.2	7378.5	7319.7	6977.7	6602.3	6238.1
10°	6907.7	6863.2	7015.9	7197.2	7415.1	7666.4	7652.1	7647.3	7349.9	6906.1	6376.5
12.5°	6123.6	6101.3	6225.4	6452.8	6864.8	7421.5	7629.8	7792.1	7685.5	7195.6	6530.8
15°	5675.1	5667.1	5751.4	5915.2	6242.9	6945.9	7391.3	7712.5	7973.4	7505.8	6694.6
17.5°	5593.9	5598.7	5627.3	5721.2	5956.6	6535.5	7050.9	7499.4	8197.7	7846.2	6899.8
20°	5830.9	5862.7	5813.4	5827.8	5955.0	6387.6	6818.7	7284.7	8340.8	8188.1	7120.9
22.5°	6357.4	6346.3	6238.1	6174.5	6176.1	6478.3	6793.2	7184.5	8434.7	8520.5	7321.3
25°	6953.9	6941.1	6812.3	6670.7	6581.7	6724.8	6976.1	7291.1	8519.0	8824.3	7481.9
27.5°	7658.5	7618.7	7475.6	7294.2	7097.0	7159.0	7329.2	7578.9	8649.4	9123.4	7588.5
30°	8340.8	8386.9	8181.8	7967.0	7758.7	7720.5	7819.1	8045.0	8915.0	9473.3	7715.7
32.5°	9245.8	9229.9	9002.5	8722.5	8425.1	8396.5	8474.4	8681.2	9392.2	9956.8	7909.8
35°	10341.7	10344.9	10022.0	9643.5	9220.4	9144.0	9274.5	9474.9	10103.1	10612.1	8216.7
37.5°	11480.5	11475.8	11194.2	10764.8	10187.4	10079.3	10228.8	10378.3	10992.2	11504.4	8693.9
40°	12279.0	12310.8	12178.8	11952.9	11405.8	11141.8	11273.8	11377.2	11959.3	12554.2	9322.2
42.5°	12732.3	12780.0	12808.6	12943.8	12656.0	12374.4	12326.7	12380.8	12823.0	13529.2	9912.3
45°	12829.3	12892.9	13101.3	13602.3	13713.7	13634.1	13478.3	13347.8	13467.1	14221.1	10298.8
47.5°	12401.5	12512.8	12958.2	13834.6	14485.1	14734.8	14561.4	14362.6	13839.3	14399.2	10259.0
50°	10706.0	10836.4	11840.0	13360.6	14594.8	15504.6	15520.5	15226.3	13794.8	13885.4	9759.6
52.5°	8476.0	8565.1	9139.3	11326.3	13518.0	15472.8	16109.0	15794.1	13580.1	13242.9	9134.5
55°	5065.9	5209.0	5745.0	7472.4	10531.0	13713.7	15068.8	15221.5	13475.1	12703.7	8708.2
57.5°	1709.8	1779.8	2292.0	3300.4	6206.3	10041.1	11642.8	12263.1	12232.9	11879.8	7876.4
60°	814.4	830.3	933.6	1251.8	2484.4	5247.2	6891.8	7607.6	8259.7	8324.9	4900.5
62.5°	620.3	629.9	682.3	750.7	998.9	2210.9	3158.8	3706.0	3958.9	3397.4	1784.6
65°	518.5	526.5	566.2	609.2	679.2	957.5	1212.0	1398.1	1259.7	981.4	850.9
67.5°	432.6	439.0	469.2	515.3	563.1	641.0	672.8	691.9	725.3	814.4	782.5
70°	338.8	345.1	377.0	416.7	462.8	481.9	512.2	531.2	598.0	712.6	709.4
72.5°	260.8	268.8	286.3	311.7	349.9	369.0	402.4	424.7	462.8	555.1	593.3
75°	190.9	195.6	211.5	219.5	224.3	219.5	252.9	278.3	329.2	364.2	373.8
77.5°	77.9	87.5	84.3	84.3	100.2	120.9	138.4	154.3	189.3	210.0	211.5
80°	31.8	35.0	41.4	46.1	55.7	71.6	82.7	89.1	105.0	117.7	127.2
82.5°	19.1	20.7	23.9	25.4	31.8	41.4	47.7	52.5	65.2	77.9	82.7
85°	9.5	9.5	11.1	12.7	15.9	19.1	22.3	25.4	33.4	41.4	46.1
87.5°	1.6	1.6	1.6	3.2	4.8	6.4	8.0	9.5	11.1	12.7	15.9
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°	5993.2	5993.2	5993.2	5993.2	5993.2	5993.2	5993.2	5993.2	5993.2	5993.2	5993.2
2.5°	5996.4	5910.5	5810.3	5730.7	5638.5	5570.1	5473.1	5412.6	5355.4	5307.6	5272.7
5°	6002.7	5858.0	5649.6	5465.1	5274.2	5092.9	4906.8	4755.7	4620.5	4507.6	4498.1
7.5°	6039.3	5830.9	5504.9	5182.0	4809.8	4450.3	4090.9	3798.2	3575.5	3459.4	3435.6
10°	6101.3	5827.8	5357.0	4841.6	4207.0	3628.0	3201.8	2979.1	2850.3	2804.1	2788.2
12.5°	6166.5	5819.8	5167.7	4361.3	3480.1	2972.7	2738.9	2711.9	2735.7	2738.9	2737.3
15°	6246.1	5815.0	4929.1	3798.2	2948.9	2668.9	2684.8	2742.1	2797.8	2810.5	2810.5
17.5°	6343.1	5803.9	4604.6	3247.9	2616.4	2610.1	2694.4	2770.7	2823.2	2832.8	2832.8
20°	6444.9	5775.3	4205.4	2799.4	2481.2	2573.5	2664.2	2723.0	2759.6	2772.3	2773.9
22.5°	6514.9	5698.9	3745.7	2466.9	2396.9	2503.5	2568.7	2629.2	2629.2	2597.4	2587.8
25°	6529.2	5535.1	3247.9	2239.5	2296.7	2395.4	2462.2	2427.2	2362.0	2336.5	2334.9
27.5°	6476.7	5296.5	2756.4	2077.3	2175.9	2274.5	2263.3	2212.4	2183.8	2158.4	2167.9
30°	6413.1	5010.2	2330.1	1943.6	2035.9	2132.9	2094.7	2077.3	2056.6	2027.9	2034.3
32.5°	6370.1	4690.5	2002.5	1840.3	1942.1	1958.0	1985.0	1983.4	1964.3	1910.2	1907.1
35°	6382.9	4367.6	1783.0	1756.0	1864.1	1857.8	1908.7	1899.1	1767.1	1692.3	1687.6
37.5°	6484.6	4057.5	1654.2	1689.2	1740.1	1779.8	1824.4	1709.8	1663.7	1616.0	1619.2
40°	6678.7	3769.6	1584.2	1652.6	1665.3	1724.1	1620.8	1619.2	1598.5	1555.6	1554.0
42.5°	6898.2	3526.2	1536.5	1635.1	1617.6	1628.7	1519.0	1531.7	1530.1	1503.1	1495.1
45°	7031.8	3302.0	1498.3	1569.9	1574.6	1463.3	1429.9	1444.2	1452.2	1437.9	1436.3
47.5°	6893.4	3044.3	1458.5	1469.7	1511.0	1388.5	1347.2	1348.8	1363.1	1364.7	1358.3
50°	6505.3	2756.4	1410.8	1383.8	1356.7	1310.6	1272.4	1264.5	1278.8	1293.1	1297.9
52.5°	6004.3	2481.2	1331.3	1289.9	1226.3	1226.3	1208.8	1183.4	1202.5	1221.5	1227.9
55°	5636.9	2277.7	1218.4	1172.2	1102.2	1126.1	1122.9	1100.7	1126.1	1140.4	1145.2
57.5°	4884.6	1830.7	1072.0	1057.7	998.9	1027.5	1033.9	1005.2	992.5	995.7	1000.5
60°	2899.6	1181.8	967.1	965.5	913.0	946.4	965.5	936.8	898.7	903.4	909.8
62.5°	1301.1	903.4	835.0	828.7	827.1	870.0	890.7	863.7	809.6	814.4	820.7
65°	819.1	781.0	725.3	725.3	750.7	787.3	803.2	781.0	718.9	711.0	717.3
67.5°	760.3	726.9	669.6	658.5	671.2	701.4	703.0	660.1	623.5	617.1	617.1
70°	682.3	656.9	601.2	579.0	574.2	572.6	567.8	556.7	532.8	526.5	529.7
72.5°	564.6	547.1	512.2	488.3	475.6	474.0	454.9	445.4	424.7	421.5	419.9
75°	373.8	378.5	378.5	375.4	364.2	359.5	338.8	329.2	305.4	295.8	294.3
77.5°	221.1	225.9	232.2	233.8	232.2	232.2	213.1	202.0	178.1	165.4	162.2
80°	135.2	138.4	141.6	146.3	140.0	135.2	117.7	106.6	95.4	87.5	85.9
82.5°	87.5	90.7	92.3	95.4	92.3	85.9	71.6	65.2	57.3	50.9	49.3
85°	49.3	50.9	54.1	54.1	49.3	44.5	36.6	31.8	27.0	23.9	23.9
87.5°	17.5	17.5	17.5	19.1	15.9	14.3	9.5	6.4	4.8	4.8	4.8
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)