

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: P639233

Luminaire Tested: GWS-SA5B-740-U-AFL-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639233
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-SA5B-740-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) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16108.1 lumens
Efficiency: N/A
Efficacy: 139.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

Input Watts (W): 115.7
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

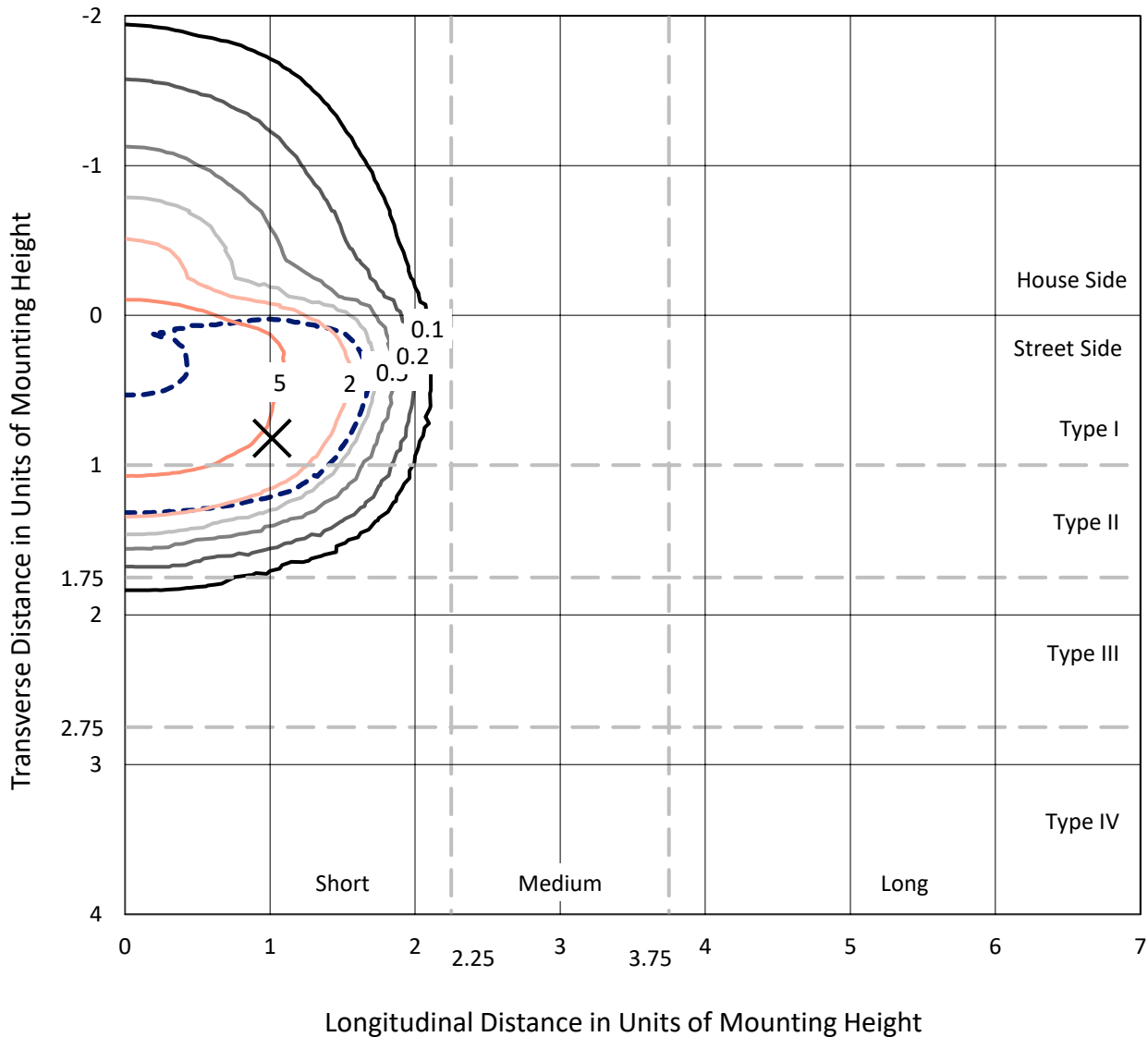


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Iso-Footcandle Lines of Horizontal Illumination

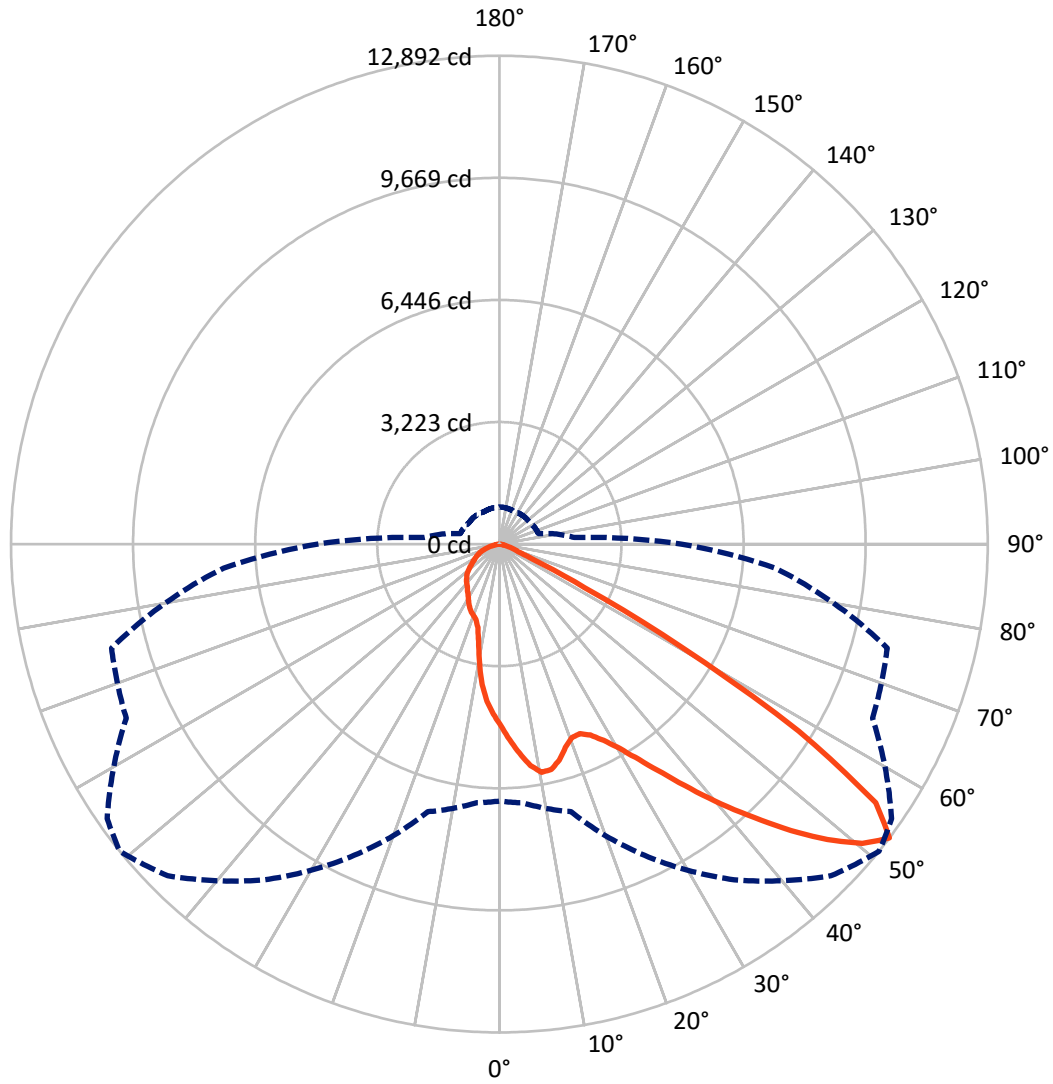
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 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	3138.5	0.0	3138.5
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	12969.6	0.0	12969.6
	% Fixture	80.5	0.0	80.5
Total	Lumens	16108.1	0.0	16108.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	447.5	2.8
10°-20°	1162.9	7.2
20°-30°	1890.8	11.7
30°-40°	2996.5	18.6
40°-50°	4519.4	28.1
50°-60°	3909.6	24.3
60°-70°	886.3	5.5
70°-80°	261.3	1.6
80°-90°	33.7	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°	16108.1	100.0
0°-180°	16108.1	100.0

Coefficient of Utilization



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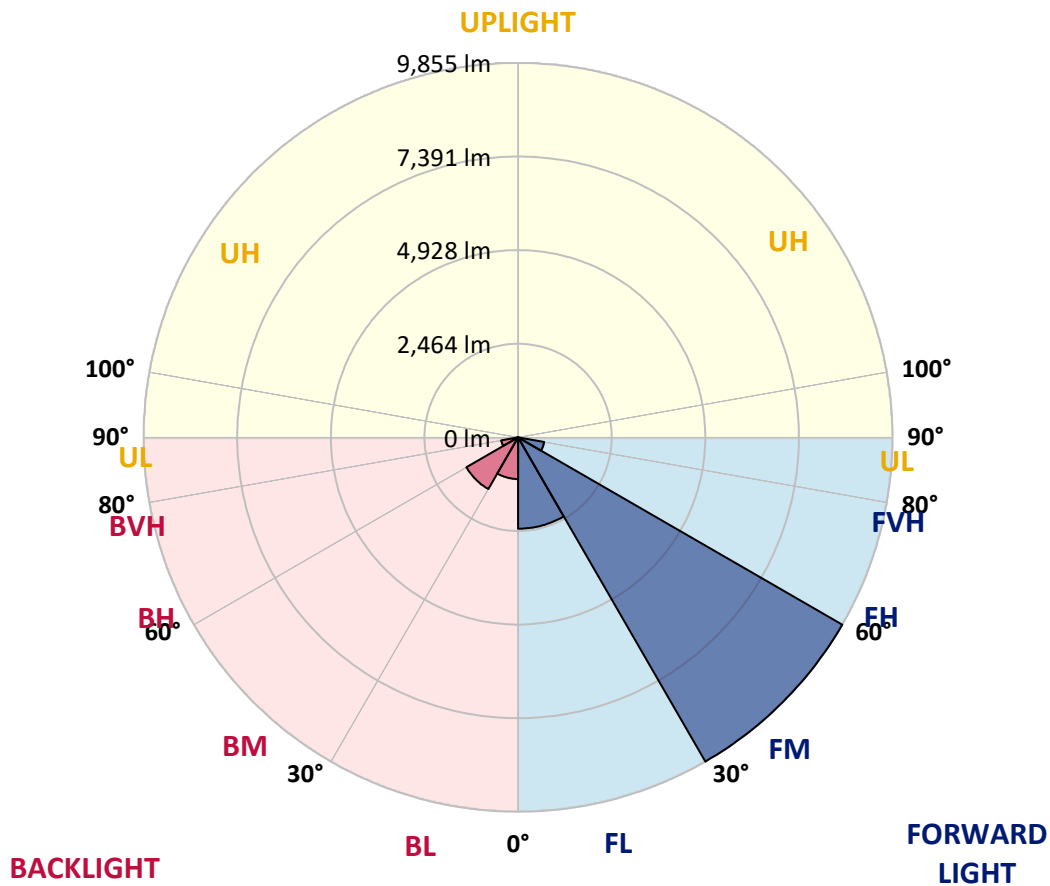
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2404.2	14.9			
FM (30°-60°)	9855.2	61.2			
FH (60°-80°)	697.5	4.3			G1/1800
FVH (80°-90°)	12.7	0.1			G1/100
BL (0°-30°)	1097.1	6.8	B3/2500		
BM (30°-60°)	1570.3	9.7	B2/2500		
BH (60°-80°)	450.1	2.8	B1/500		G1/500
BVH (80°-90°)	21.0	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°	4796.2	4796.2	4796.2	4796.2	4796.2	4796.2	4796.2	4796.2	4796.2	4796.2	4796.2
2.5°	5344.8	5375.3	5328.2	5310.4	5281.1	5230.2	5171.7	5155.1	5029.1	4946.4	4853.5
5°	5881.9	5898.5	5860.3	5822.1	5749.6	5659.2	5545.9	5521.7	5292.6	5102.9	4905.7
7.5°	6001.6	5995.2	6028.3	6050.0	6041.1	6005.4	5904.9	5857.8	5584.1	5283.7	4992.2
10°	5528.1	5492.4	5614.6	5759.7	5934.1	6135.2	6123.8	6120.0	5881.9	5526.8	5102.9
12.5°	4900.6	4882.7	4982.0	5164.0	5493.7	5939.2	6106.0	6235.8	6150.5	5758.5	5226.4
15°	4541.6	4535.2	4602.7	4733.8	4996.0	5558.6	5915.0	6172.2	6380.9	6006.7	5357.5
17.5°	4476.7	4480.5	4503.4	4578.5	4766.9	5230.2	5642.6	6001.6	6560.4	6279.1	5521.7
20°	4666.4	4691.8	4652.4	4663.8	4765.6	5111.9	5456.8	5829.8	6674.9	6552.7	5698.7
22.5°	5087.7	5078.8	4992.2	4941.3	4942.6	5184.4	5436.4	5749.6	6750.0	6818.8	5859.0
25°	5565.0	5554.8	5451.7	5338.4	5267.1	5381.7	5582.8	5834.8	6817.5	7061.9	5987.6
27.5°	6128.9	6097.1	5982.5	5837.4	5679.6	5729.2	5865.4	6065.2	6921.9	7301.2	6072.9
30°	6674.9	6711.9	6547.7	6375.8	6209.1	6178.5	6257.4	6438.2	7134.5	7581.2	6174.7
32.5°	7399.2	7386.5	7204.5	6980.4	6742.4	6719.5	6781.9	6947.3	7516.3	7968.2	6330.0
35°	8276.2	8278.8	8020.4	7717.4	7378.8	7317.7	7422.1	7582.5	8085.3	8492.6	6575.7
37.5°	9187.6	9183.8	8958.5	8614.8	8152.8	8066.2	8185.8	8305.5	8796.8	9206.7	6957.5
40°	9826.6	9852.0	9746.4	9565.6	9127.8	8916.5	9022.1	9104.9	9570.7	10046.8	7460.3
42.5°	10189.3	10227.5	10250.4	10358.6	10128.2	9903.0	9864.8	9908.0	10261.9	10827.1	7932.5
45°	10267.0	10317.9	10484.7	10885.6	10974.7	10911.1	10786.3	10681.9	10777.4	11380.8	8241.9
47.5°	9924.6	10013.7	10370.1	11071.4	11592.1	11791.9	11653.2	11494.0	11075.3	11523.3	8210.0
50°	8567.7	8672.1	9475.3	10692.1	11679.9	12408.0	12420.7	12185.2	11039.6	11112.2	7810.3
52.5°	6783.1	6854.4	7313.9	9064.1	10818.1	12382.5	12891.7	12639.6	10867.8	10597.9	7310.1
55°	4054.1	4168.7	4597.6	5980.0	8427.7	10974.7	12059.2	12181.4	10783.8	10166.4	6969.0
57.5°	1368.3	1424.3	1834.2	2641.2	4966.8	8035.6	9317.4	9813.8	9789.7	9507.1	6303.3
60°	651.7	664.4	747.2	1001.8	1988.2	4199.2	5515.4	6088.2	6610.0	6662.2	3921.7
62.5°	496.4	504.1	546.1	600.8	799.4	1769.3	2527.9	2965.8	3168.2	2718.9	1428.2
65°	415.0	421.3	453.1	487.5	543.5	766.3	969.9	1118.9	1008.1	785.4	681.0
67.5°	346.2	351.3	375.5	412.4	450.6	513.0	538.4	553.7	580.4	651.7	626.3
70°	271.1	276.2	301.7	333.5	370.4	385.7	409.9	425.1	478.6	570.2	567.7
72.5°	208.8	215.1	229.1	249.5	280.0	295.3	322.0	339.9	370.4	444.2	474.8
75°	152.7	156.6	169.3	175.7	179.5	175.7	202.4	222.8	263.5	291.5	299.1
77.5°	62.4	70.0	67.5	67.5	80.2	96.7	110.7	123.5	151.5	168.0	169.3
80°	25.5	28.0	33.1	36.9	44.6	57.3	66.2	71.3	84.0	94.2	101.8
82.5°	15.3	16.5	19.1	20.4	25.5	33.1	38.2	42.0	52.2	62.4	66.2
85°	7.6	7.6	8.9	10.2	12.7	15.3	17.8	20.4	26.7	33.1	36.9
87.5°	1.3	1.3	1.3	2.5	3.8	5.1	6.4	7.6	8.9	10.2	12.7
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°	4796.2	4796.2	4796.2	4796.2	4796.2	4796.2	4796.2	4796.2	4796.2	4796.2	4796.2
2.5°	4798.7	4730.0	4649.8	4586.2	4512.3	4457.6	4380.0	4331.6	4285.8	4247.6	4219.6
5°	4803.8	4688.0	4521.2	4373.6	4220.8	4075.7	3926.8	3805.9	3697.7	3607.3	3599.7
7.5°	4833.1	4666.4	4405.4	4147.0	3849.2	3561.5	3273.8	3039.6	2861.4	2768.5	2749.4
10°	4882.7	4663.8	4287.0	3874.6	3366.7	2903.4	2562.3	2384.1	2281.0	2244.1	2231.3
12.5°	4934.9	4657.4	4135.6	3490.2	2785.0	2379.0	2191.9	2170.2	2189.3	2191.9	2190.6
15°	4998.6	4653.6	3944.6	3039.6	2359.9	2135.9	2148.6	2194.4	2239.0	2249.2	2249.2
17.5°	5076.2	4644.7	3685.0	2599.2	2093.9	2088.8	2156.2	2217.3	2259.3	2267.0	2267.0
20°	5157.7	4621.8	3365.5	2240.3	1985.7	2059.5	2132.1	2179.2	2208.4	2218.6	2219.9
22.5°	5213.7	4560.7	2997.6	1974.2	1918.2	2003.5	2055.7	2104.1	2104.1	2078.6	2071.0
25°	5225.1	4429.6	2599.2	1792.2	1838.0	1916.9	1970.4	1942.4	1890.2	1869.9	1868.6
27.5°	5183.1	4238.7	2205.9	1662.4	1741.3	1820.2	1811.3	1770.6	1747.7	1727.3	1734.9
30°	5132.2	4009.5	1864.8	1555.5	1629.3	1706.9	1676.4	1662.4	1645.8	1622.9	1628.0
32.5°	5097.9	3753.7	1602.5	1472.7	1554.2	1566.9	1588.5	1587.3	1572.0	1528.7	1526.2
35°	5108.0	3495.3	1426.9	1405.3	1491.8	1486.7	1527.4	1519.8	1414.2	1354.3	1350.5
37.5°	5189.5	3247.1	1323.8	1351.8	1392.5	1424.3	1460.0	1368.3	1331.4	1293.2	1295.8
40°	5344.8	3016.7	1267.8	1322.5	1332.7	1379.8	1297.1	1295.8	1279.2	1244.9	1243.6
42.5°	5520.4	2822.0	1229.6	1308.5	1294.5	1303.4	1215.6	1225.8	1224.5	1202.9	1196.5
45°	5627.4	2642.5	1199.0	1256.3	1260.1	1171.0	1144.3	1155.8	1162.1	1150.7	1149.4
47.5°	5516.6	2436.3	1167.2	1176.1	1209.2	1111.2	1078.1	1079.4	1090.9	1092.1	1087.0
50°	5206.1	2205.9	1129.0	1107.4	1085.8	1048.8	1018.3	1011.9	1023.4	1034.8	1038.7
52.5°	4805.1	1985.7	1065.4	1032.3	981.4	981.4	967.4	947.0	962.3	977.6	982.7
55°	4511.1	1822.8	975.0	938.1	882.1	901.2	898.6	880.8	901.2	912.6	916.5
57.5°	3909.0	1465.1	857.9	846.5	799.4	822.3	827.4	804.5	794.3	796.8	800.6
60°	2320.4	945.7	773.9	772.6	730.6	757.4	772.6	749.7	719.2	723.0	728.1
62.5°	1041.2	723.0	668.3	663.2	661.9	696.3	712.8	691.2	647.9	651.7	656.8
65°	655.5	625.0	580.4	580.4	600.8	630.1	642.8	625.0	575.3	569.0	574.1
67.5°	608.4	581.7	535.9	527.0	537.2	561.3	562.6	528.2	499.0	493.9	493.9
70°	546.1	525.7	481.1	463.3	459.5	458.2	454.4	445.5	426.4	421.3	423.9
72.5°	451.9	437.9	409.9	390.8	380.6	379.3	364.0	356.4	339.9	337.3	336.0
75°	299.1	302.9	302.9	300.4	291.5	287.7	271.1	263.5	244.4	236.8	235.5
77.5°	176.9	180.7	185.8	187.1	185.8	185.8	170.6	161.7	142.6	132.4	129.8
80°	108.2	110.7	113.3	117.1	112.0	108.2	94.2	85.3	76.4	70.0	68.7
82.5°	70.0	72.6	73.8	76.4	73.8	68.7	57.3	52.2	45.8	40.7	39.5
85°	39.5	40.7	43.3	43.3	39.5	35.6	29.3	25.5	21.6	19.1	19.1
87.5°	14.0	14.0	14.0	15.3	12.7	11.5	7.6	5.1	3.8	3.8	3.8
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)