

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: P641158

Luminaire Tested: GWS-SA5F-735-U-AFL-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641158
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-SA5F-735-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) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37346.1 lumens
Efficiency: N/A
Efficacy: 120.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

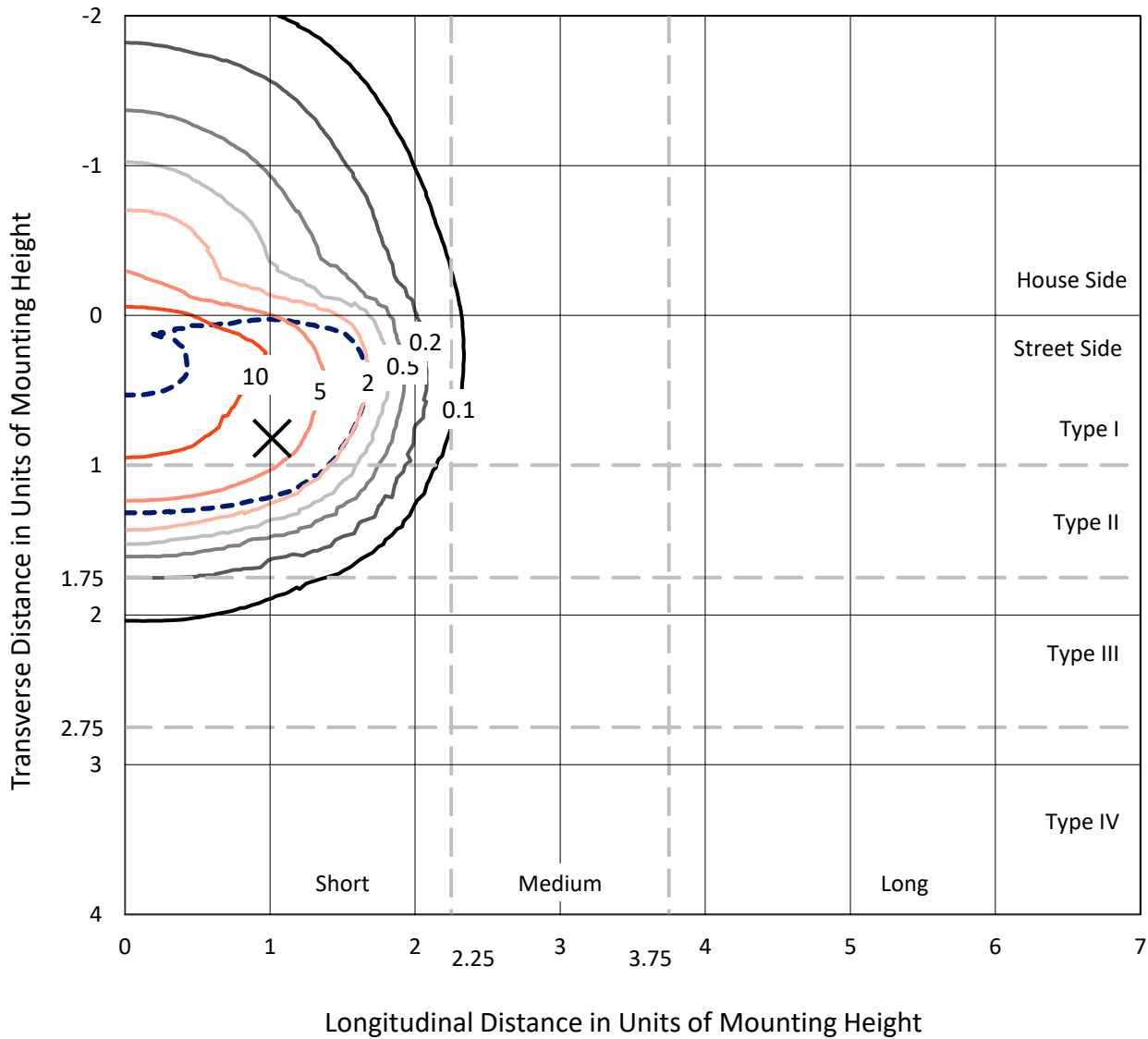
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

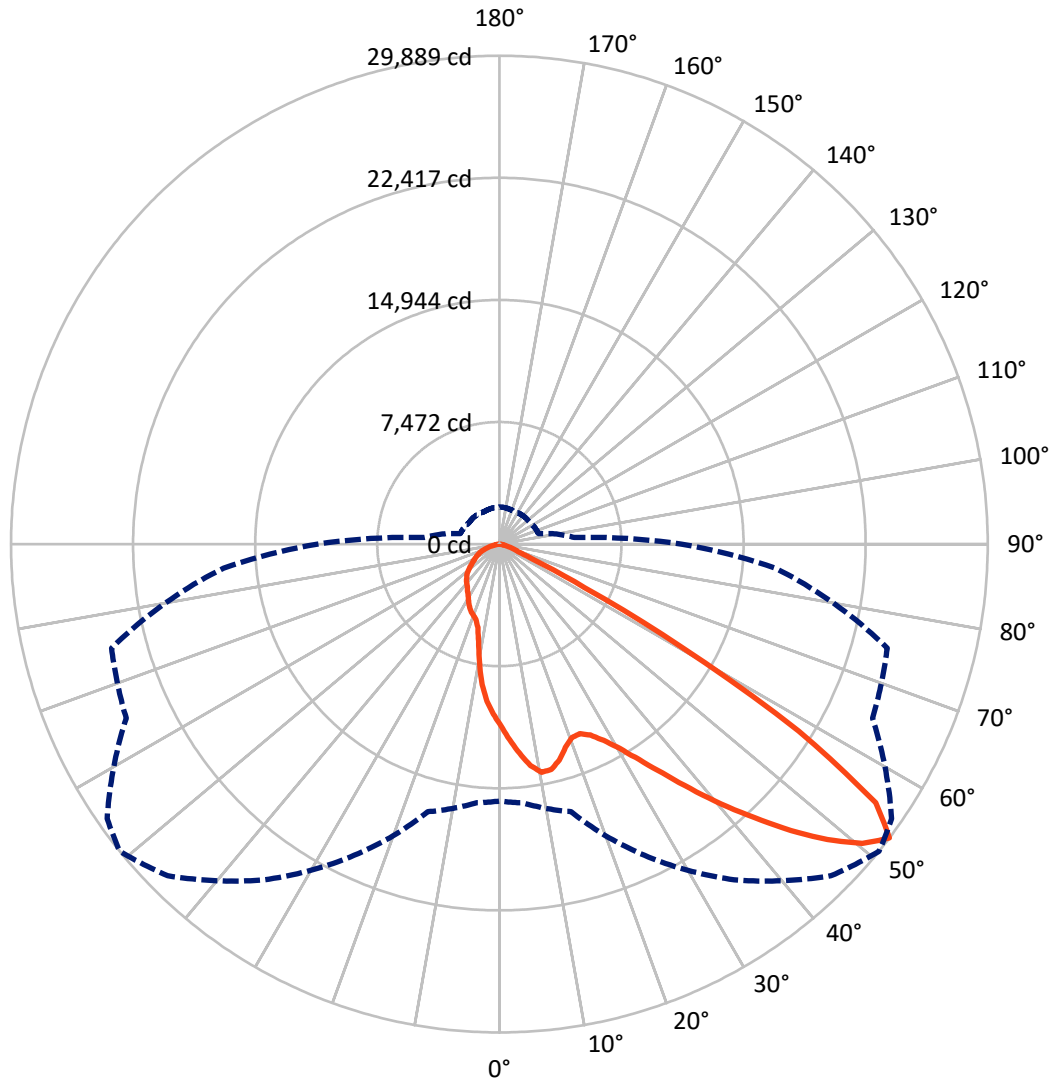
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 15.1 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	7276.6	0.0	7276.6
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	30069.5	0.0	30069.5
	% Fixture	80.5	0.0	80.5
Total	Lumens	37346.1	0.0	37346.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1037.6	2.8
10°-20°	2696.2	7.2
20°-30°	4383.8	11.7
30°-40°	6947.3	18.6
40°-50°	10478.0	28.1
50°-60°	9064.3	24.3
60°-70°	2054.9	5.5
70°-80°	605.9	1.6
80°-90°	78.1	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°	37346.1	100.0
0°-180°	37346.1	100.0

Coefficient of Utilization



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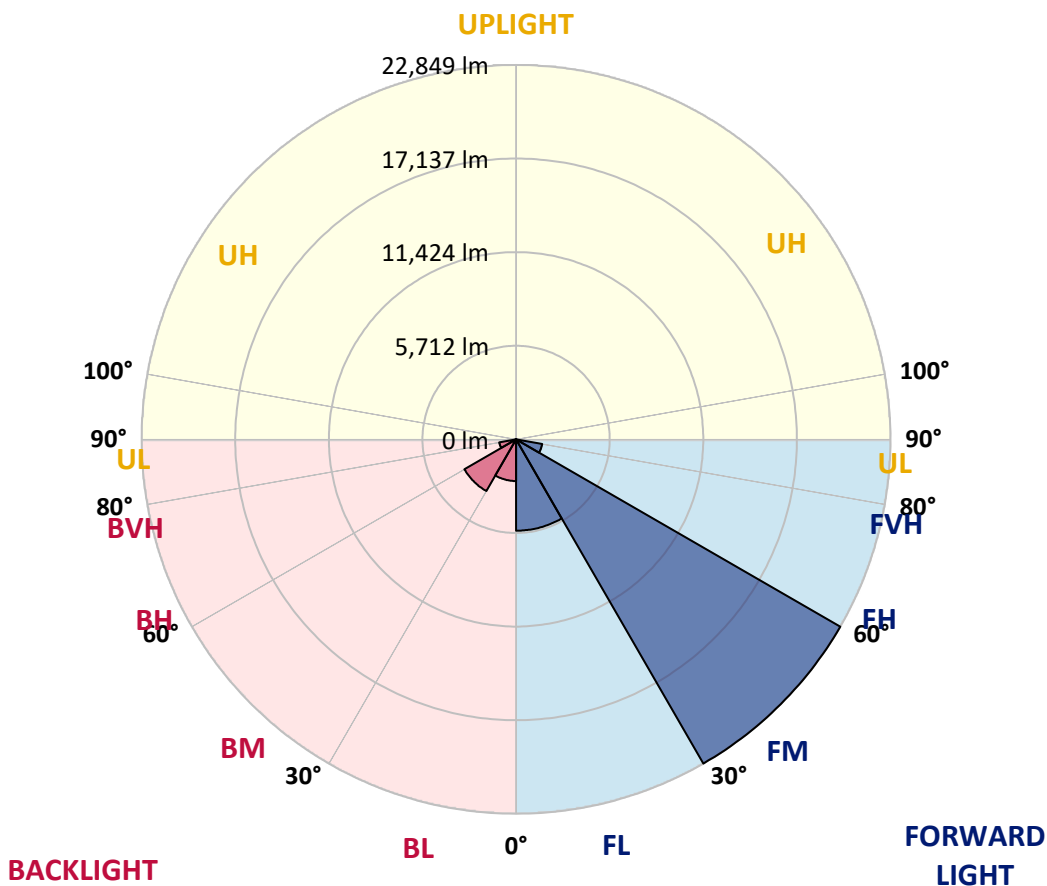
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5574.0	14.9			
FM (30°-60°)	22848.9	61.2			
FH (60°-80°)	1617.2	4.3			G1/1800
FVH (80°-90°)	29.4	0.1			G1/100
BL (0°-30°)	2543.6	6.8	B4/5000		
BM (30°-60°)	3640.7	9.7	B3/5000		
BH (60°-80°)	1043.7	2.8	B3/2500		G3/2500
BVH (80°-90°)	48.6	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	51°	55°	65°	75°	85°
0°	11119.8	11119.8	11119.8	11119.8	11119.8	11119.8	11119.8	11119.8	11119.8	11119.8	11119.8
2.5°	12391.7	12462.6	12353.4	12312.0	12244.2	12126.1	11990.4	11952.0	11659.9	11468.0	11252.6
5°	13637.1	13675.5	13586.9	13498.4	13330.2	13120.7	12858.0	12801.9	12270.7	11831.0	11373.6
7.5°	13914.5	13899.7	13976.5	14026.6	14006.0	13923.4	13690.2	13581.0	12946.5	12250.1	11574.3
10°	12816.7	12734.1	13017.4	13353.8	13758.1	14224.4	14197.8	14189.0	13637.1	12813.7	11831.0
12.5°	11361.8	11320.5	11550.7	11972.7	12737.0	13769.9	14156.5	14457.5	14259.8	13350.8	12117.3
15°	10529.6	10514.8	10671.2	10975.2	11583.1	12887.5	13713.8	14310.0	14793.9	13926.3	12421.2
17.5°	10379.1	10387.9	10441.0	10615.2	11051.9	12126.1	13082.3	13914.5	15210.0	14557.8	12801.9
20°	10818.8	10877.8	10786.3	10812.9	11049.0	11851.7	12651.4	13516.1	15475.6	15192.3	13212.1
22.5°	11795.6	11774.9	11574.3	11456.2	11459.2	12019.9	12604.2	13330.2	15649.8	15809.1	13584.0
25°	12902.3	12878.7	12639.6	12377.0	12211.7	12477.3	12943.6	13527.9	15806.2	16372.8	13882.0
27.5°	14209.6	14135.8	13870.2	13533.8	13167.9	13283.0	13598.7	14062.1	16048.2	16927.6	14079.8
30°	15475.6	15561.2	15180.5	14782.1	14395.5	14324.7	14507.7	14926.7	16541.0	17576.8	14315.9
32.5°	17154.8	17125.3	16703.3	16183.9	15632.1	15578.9	15723.5	16107.2	17426.3	18474.0	14675.9
35°	19188.1	19194.0	18595.0	17892.6	17107.6	16966.0	17207.9	17579.8	18745.5	19689.8	15245.5
37.5°	21301.1	21292.3	20769.9	19973.1	18901.9	18701.2	18978.6	19256.0	20395.1	21345.4	16130.8
40°	22782.6	22841.6	22596.7	22177.6	21162.4	20672.6	20917.5	21109.3	22189.4	23293.1	17296.5
42.5°	23623.7	23712.2	23765.3	24016.2	23482.0	22959.7	22871.1	22971.5	23791.9	25102.2	18391.3
45°	23803.7	23921.7	24308.3	25237.9	25444.5	25296.9	25007.7	24765.7	24987.1	26385.9	19108.5
47.5°	23009.8	23216.4	24042.7	25668.8	26875.8	27339.1	27017.4	26648.6	25677.6	26716.4	19034.7
50°	19863.9	20105.9	21968.1	24789.4	27079.4	28767.5	28797.0	28251.0	25595.0	25763.2	18108.0
52.5°	15726.5	15891.7	16957.1	21014.9	25081.5	28708.4	29888.9	29304.6	25196.6	24571.0	16948.2
55°	9399.3	9664.9	10659.4	13864.3	19539.3	25444.5	27958.9	28242.2	25001.8	23570.5	16157.3
57.5°	3172.4	3302.3	4252.6	6123.6	11515.2	18630.4	21602.2	22753.1	22697.0	22041.9	14613.9
60°	1511.0	1540.5	1732.3	2322.5	4609.6	9735.7	12787.2	14115.2	15325.1	15446.1	9092.4
62.5°	1150.9	1168.6	1266.0	1392.9	1853.3	4102.0	5860.9	6876.1	7345.3	6303.6	3311.1
65°	962.1	976.8	1050.6	1130.3	1260.1	1776.6	2248.7	2594.0	2337.3	1820.8	1578.8
67.5°	802.7	814.5	870.6	956.2	1044.7	1189.3	1248.3	1283.7	1345.7	1511.0	1451.9
70°	628.6	640.4	699.4	773.2	858.8	894.2	950.3	985.7	1109.6	1322.1	1316.2
72.5°	484.0	498.7	531.2	578.4	649.2	684.7	746.6	787.9	858.8	1029.9	1100.8
75°	354.1	363.0	392.5	407.3	416.1	407.3	469.2	516.4	610.9	675.8	693.5
77.5°	144.6	162.3	156.4	156.4	185.9	224.3	256.7	286.3	351.2	389.5	392.5
80°	59.0	64.9	76.7	85.6	103.3	132.8	153.5	165.3	194.8	218.4	236.1
82.5°	35.4	38.4	44.3	47.2	59.0	76.7	88.5	97.4	121.0	144.6	153.5
85°	17.7	17.7	20.7	23.6	29.5	35.4	41.3	47.2	62.0	76.7	85.6
87.5°	3.0	3.0	3.0	5.9	8.9	11.8	14.8	17.7	20.7	23.6	29.5
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°	11119.8	11119.8	11119.8	11119.8	11119.8	11119.8	11119.8	11119.8	11119.8	11119.8	11119.8
2.5°	11125.7	10966.3	10780.4	10632.9	10461.7	10334.8	10154.8	10042.6	9936.4	9847.9	9782.9
5°	11137.5	10869.0	10482.4	10140.0	9785.9	9449.5	9104.2	8823.8	8573.0	8363.5	8345.8
7.5°	11205.4	10818.8	10213.8	9614.7	8924.2	8257.2	7590.3	7047.3	6634.1	6418.7	6374.4
10°	11320.5	10812.9	9939.4	8983.2	7805.7	6731.5	5940.6	5527.4	5288.4	5202.8	5173.3
12.5°	11441.5	10798.1	9588.2	8092.0	6457.0	5515.6	5081.8	5031.6	5075.9	5081.8	5078.9
15°	11589.0	10789.3	9145.5	7047.3	5471.4	4952.0	4981.5	5087.7	5191.0	5214.6	5214.6
17.5°	11769.0	10768.6	8543.5	6026.2	4854.6	4842.8	4999.2	5140.8	5238.2	5255.9	5255.9
20°	11957.9	10715.5	7802.7	5194.0	4603.7	4774.9	4943.1	5052.3	5120.2	5143.8	5146.7
22.5°	12087.8	10573.8	6949.9	4577.2	4447.3	4645.1	4766.0	4878.2	4878.2	4819.2	4801.5
25°	12114.3	10269.9	6026.2	4155.2	4261.4	4444.4	4568.3	4503.4	4382.4	4335.2	4332.2
27.5°	12016.9	9827.2	5114.3	3854.2	4037.1	4220.1	4199.4	4105.0	4051.9	4004.7	4022.4
30°	11898.9	9296.0	4323.4	3606.3	3777.4	3957.4	3886.6	3854.2	3815.8	3762.7	3774.5
32.5°	11819.2	8702.8	3715.5	3414.4	3603.3	3632.8	3683.0	3680.0	3644.6	3544.3	3538.4
35°	11842.8	8103.8	3308.2	3258.0	3458.7	3446.9	3541.3	3523.6	3278.7	3140.0	3131.1
37.5°	12031.7	7528.3	3069.2	3134.1	3228.5	3302.3	3384.9	3172.4	3086.9	2998.3	3004.2
40°	12391.7	6994.1	2939.3	3066.2	3089.8	3199.0	3007.2	3004.2	2965.9	2886.2	2883.2
42.5°	12799.0	6542.6	2850.8	3033.7	3001.3	3021.9	2818.3	2841.9	2839.0	2788.8	2774.0
45°	13046.9	6126.5	2779.9	2912.7	2921.6	2715.0	2653.1	2679.6	2694.4	2667.8	2664.9
47.5°	12790.1	5648.4	2706.2	2726.8	2803.6	2576.3	2499.6	2502.5	2529.1	2532.1	2520.3
50°	12070.1	5114.3	2617.6	2567.5	2517.3	2431.7	2360.9	2346.1	2372.7	2399.3	2408.1
52.5°	11140.5	4603.7	2470.1	2393.4	2275.3	2275.3	2242.8	2195.6	2231.0	2266.5	2278.3
55°	10458.7	4226.0	2260.6	2175.0	2045.1	2089.4	2083.5	2042.2	2089.4	2115.9	2124.8
57.5°	9062.9	3396.7	1989.1	1962.5	1853.3	1906.4	1918.2	1865.1	1841.5	1847.4	1856.3
60°	5379.9	2192.7	1794.3	1791.3	1693.9	1755.9	1791.3	1738.2	1667.4	1676.2	1688.0
62.5°	2414.0	1676.2	1549.3	1537.5	1534.6	1614.3	1652.6	1602.5	1502.1	1511.0	1522.8
65°	1519.8	1449.0	1345.7	1345.7	1392.9	1460.8	1490.3	1449.0	1333.9	1319.1	1331.0
67.5°	1410.6	1348.7	1242.4	1221.8	1245.4	1301.4	1304.4	1224.7	1156.8	1145.0	1145.0
70°	1266.0	1218.8	1115.5	1074.2	1065.4	1062.4	1053.5	1032.9	988.6	976.8	982.7
72.5°	1047.6	1015.2	950.3	906.0	882.4	879.4	844.0	826.3	787.9	782.0	779.1
75°	693.5	702.4	702.4	696.5	675.8	667.0	628.6	610.9	566.6	548.9	546.0
77.5°	410.2	419.1	430.9	433.8	430.9	430.9	395.4	374.8	330.5	306.9	301.0
80°	250.8	256.7	262.6	271.5	259.7	250.8	218.4	197.7	177.1	162.3	159.4
82.5°	162.3	168.2	171.2	177.1	171.2	159.4	132.8	121.0	106.2	94.4	91.5
85°	91.5	94.4	100.3	100.3	91.5	82.6	67.9	59.0	50.2	44.3	44.3
87.5°	32.5	32.5	32.5	35.4	29.5	26.6	17.7	11.8	8.9	8.9	8.9
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)