

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: P643798

Luminaire Tested: GWS-SA6F-760-U-AFL-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643798
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-SA6F-760-U-AFL-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (96) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45553.1 lumens
Efficiency: N/A
Efficacy: 122.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

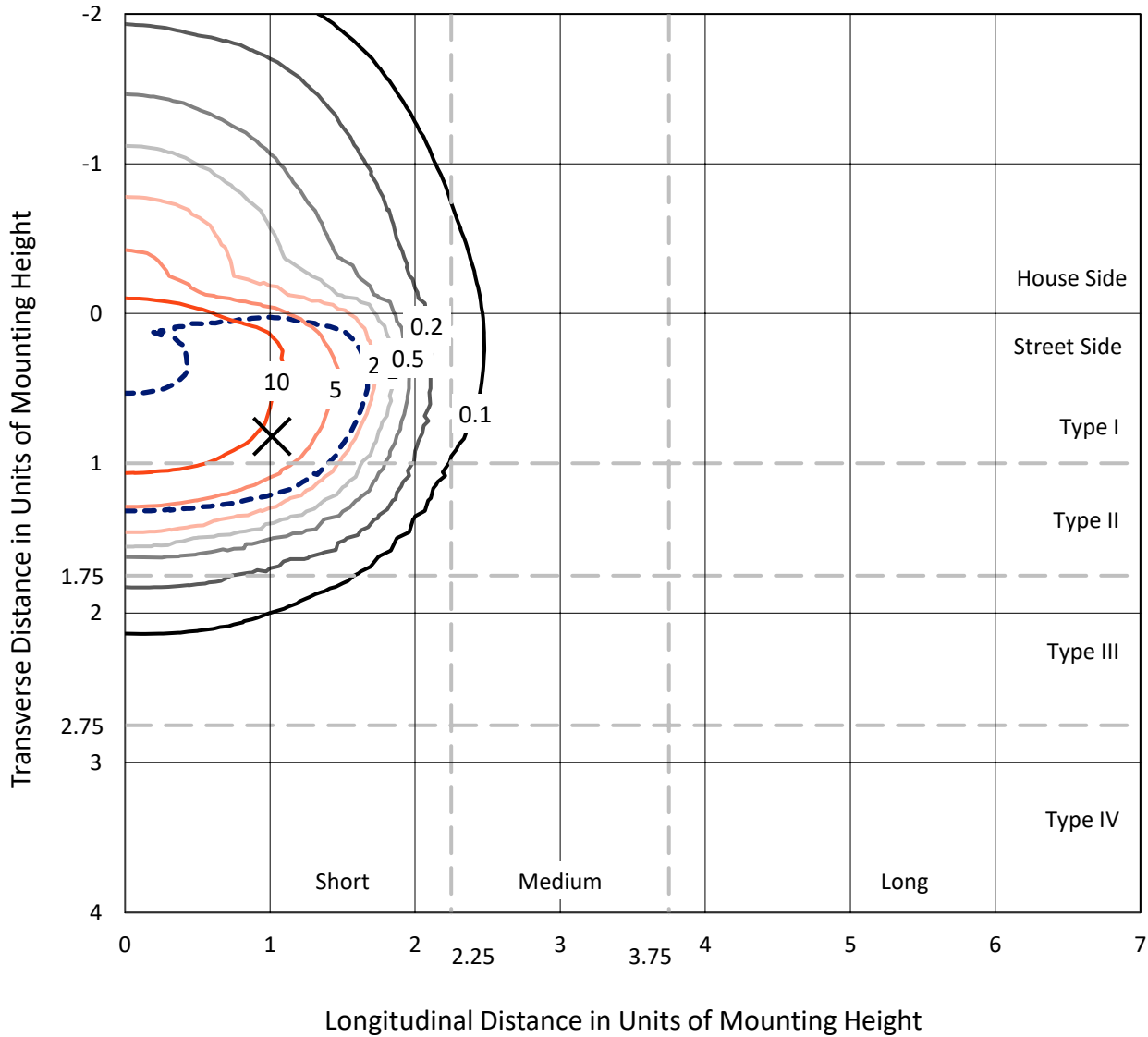
Input Watts (W): 372.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P643798
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Iso-Footcandle Lines of Horizontal Illumination

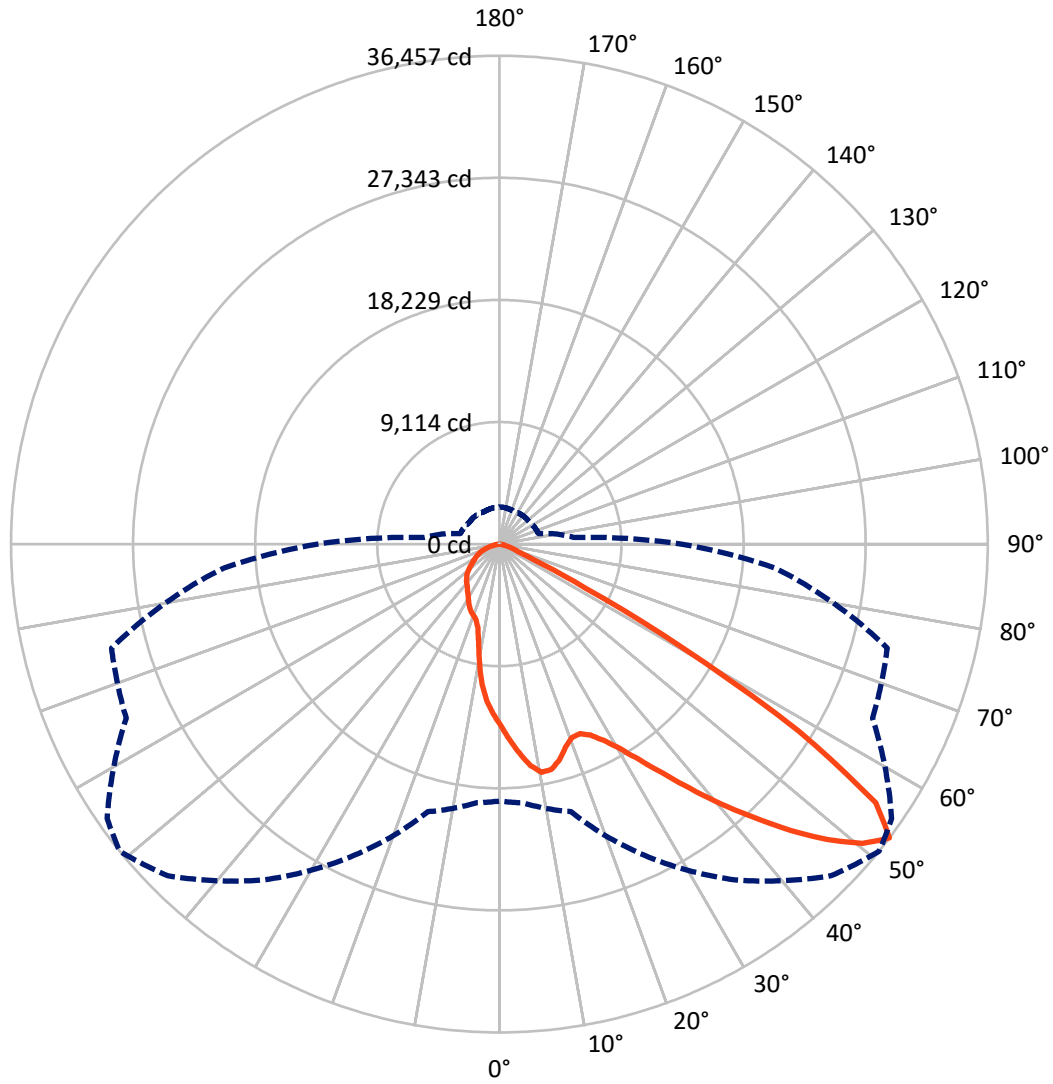
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 18.4 fc
 Type II - Short - N/A

REPORT NUMBER: P643798
CATALOG NUMBER: GWS-SA6F-760-U-AFL-W-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 51-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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CATALOG NUMBER: GWS-SA6F-760-U-AFL-W-GRSWH

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8875.7	0.0	8875.7
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	36677.5	0.0	36677.5
	% Fixture	80.5	0.0	80.5
Total	Lumens	45553.1	0.0	45553.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1265.7	2.8
10°-20°	3288.7	7.2
20°-30°	5347.1	11.7
30°-40°	8474.0	18.6
40°-50°	12780.6	28.1
50°-60°	11056.2	24.3
60°-70°	2506.5	5.5
70°-80°	739.1	1.6
80°-90°	95.2	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°	45553.1	100.0
0°-180°	45553.1	100.0

Coefficient of Utilization



REPORT NUMBER: P643798

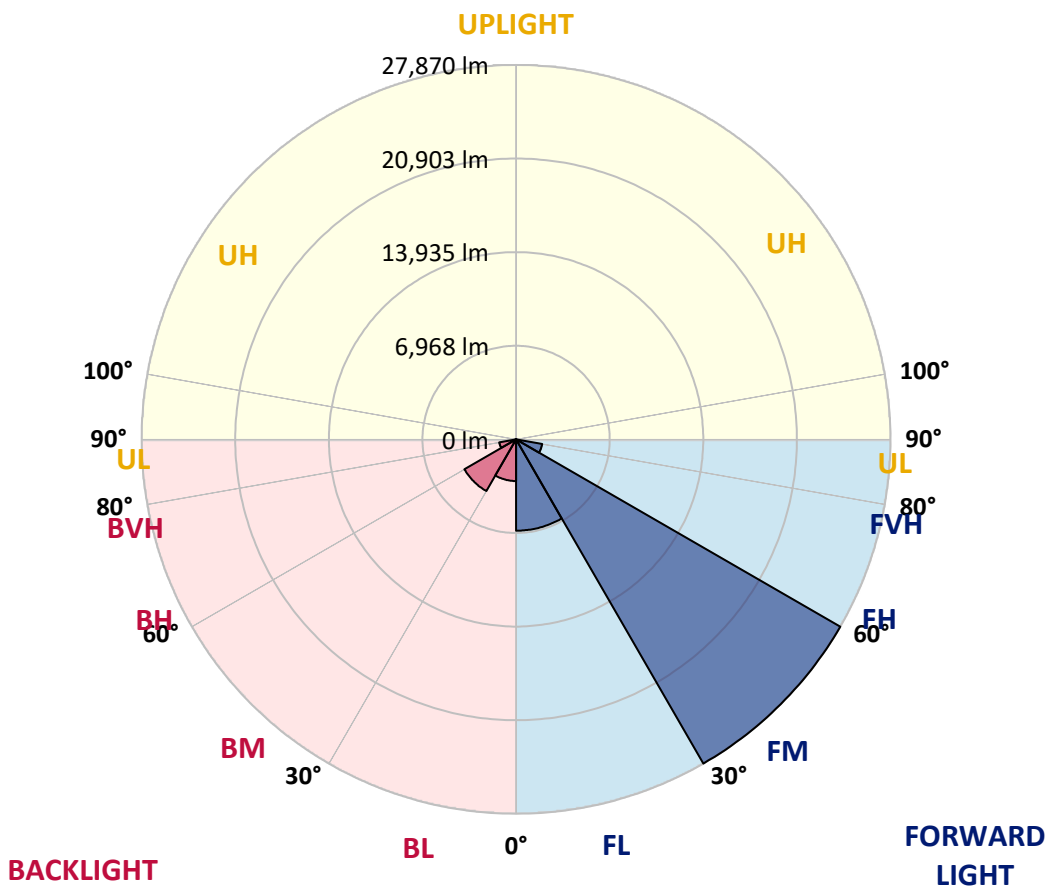
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6798.9	14.9			
FM (30°-60°)	27870.1	61.2			
FH (60°-80°)	1972.6	4.3			G2/5000
FVH (80°-90°)	35.9	0.1			G1/100
BL (0°-30°)	3102.5	6.8	B4/5000		
BM (30°-60°)	4440.8	9.7	B3/5000		
BH (60°-80°)	1273.0	2.8	B3/2500		G3/2500
BVH (80°-90°)	59.3	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





REPORT NUMBER: P643798

CATALOG NUMBER: GWS-SA6F-760-U-AFL-W-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	51°	55°	65°	75°	85°
0°	13563.4	13563.4	13563.4	13563.4	13563.4	13563.4	13563.4	13563.4	13563.4	13563.4	13563.4
2.5°	15114.9	15201.3	15068.1	15017.7	14934.9	14790.9	14625.3	14578.5	14222.2	13988.2	13725.4
5°	16633.9	16680.7	16572.7	16464.7	16259.6	16004.0	15683.6	15615.2	14967.3	14430.9	13873.0
7.5°	16972.3	16954.3	17047.9	17109.1	17083.9	16983.1	16698.7	16565.5	15791.6	14942.1	14117.8
10°	15633.2	15532.4	15878.0	16288.4	16781.5	17350.2	17317.9	17307.1	16633.9	15629.6	14430.9
12.5°	13858.6	13808.2	14089.0	14603.7	15536.0	16795.9	17267.5	17634.6	17393.4	16284.8	14780.1
15°	12843.5	12825.5	13016.3	13387.0	14128.6	15719.6	16727.5	17454.6	18045.0	16986.7	15150.9
17.5°	12659.9	12670.7	12735.5	12947.9	13480.6	14790.9	15957.2	16972.3	18552.5	17757.0	15615.2
20°	13196.3	13268.3	13156.7	13189.1	13477.0	14456.1	15431.6	16486.3	18876.5	18530.9	16115.6
22.5°	14387.7	14362.5	14117.8	13973.8	13977.4	14661.3	15374.0	16259.6	19088.9	19283.3	16569.1
25°	15737.6	15708.8	15417.2	15096.9	14895.3	15219.3	15788.0	16500.7	19279.7	19970.8	16932.7
27.5°	17332.3	17242.3	16918.3	16507.9	16061.6	16202.0	16587.1	17152.3	19574.8	20647.5	17173.9
30°	18876.5	18980.9	18516.5	18030.6	17559.0	17472.6	17695.8	18207.0	20176.0	21439.4	17461.8
32.5°	20924.7	20888.7	20373.9	19740.4	19067.3	19002.5	19178.9	19646.8	21255.9	22533.7	17901.0
35°	23404.8	23412.0	22681.3	21824.6	20867.1	20694.3	20989.5	21443.0	22864.9	24016.8	18595.7
37.5°	25982.2	25971.4	25334.2	24362.3	23055.7	22810.9	23149.3	23487.6	24877.1	26036.2	19675.6
40°	27789.2	27861.2	27562.4	27051.3	25813.0	25215.5	25514.2	25748.2	27065.7	28411.9	21097.5
42.5°	28815.1	28923.1	28987.9	29293.8	28642.3	28005.2	27897.2	28019.6	29020.3	30618.5	22432.9
45°	29034.7	29178.7	29650.2	30784.1	31036.1	30856.1	30503.3	30208.2	30478.1	32184.4	23307.6
47.5°	28066.4	28318.3	29326.2	31309.6	32781.9	33347.0	32954.7	32504.7	31320.4	32587.5	23217.7
50°	24229.2	24524.3	26795.7	30236.9	33030.3	35089.3	35125.3	34459.3	31219.6	31424.8	22087.4
52.5°	19182.5	19384.0	20683.5	25633.0	30593.3	35017.3	36457.1	35744.4	30733.7	29970.6	20672.7
55°	11464.8	11788.8	13001.9	16911.1	23833.2	31036.1	34103.0	34448.5	30496.1	28750.3	19708.0
57.5°	3869.6	4028.0	5187.1	7469.2	14045.8	22724.5	26349.3	27753.2	27684.8	26885.7	17825.4
60°	1843.0	1879.0	2113.0	2832.9	5622.6	11875.2	15597.2	17217.1	18692.9	18840.5	11090.5
62.5°	1403.9	1425.5	1544.2	1699.0	2260.6	5003.5	7148.9	8387.2	8959.5	7688.8	4038.8
65°	1173.5	1191.5	1281.5	1378.7	1537.0	2167.0	2742.9	3164.1	2850.9	2221.0	1925.8
67.5°	979.1	993.5	1061.9	1166.3	1274.3	1450.7	1522.6	1565.8	1641.4	1843.0	1771.0
70°	766.7	781.1	853.1	943.1	1047.5	1090.7	1159.1	1202.3	1353.5	1612.6	1605.4
72.5°	590.3	608.3	647.9	705.5	791.9	835.1	910.7	961.1	1047.5	1256.3	1342.7
75°	432.0	442.8	478.8	496.7	507.5	496.7	572.3	629.9	745.1	824.3	845.9
77.5°	176.4	198.0	190.8	190.8	226.8	273.6	313.2	349.2	428.4	475.2	478.8
80°	72.0	79.2	93.6	104.4	126.0	162.0	187.2	201.6	237.6	266.4	288.0
82.5°	43.2	46.8	54.0	57.6	72.0	93.6	108.0	118.8	147.6	176.4	187.2
85°	21.6	21.6	25.2	28.8	36.0	43.2	50.4	57.6	75.6	93.6	104.4
87.5°	3.6	3.6	3.6	7.2	10.8	14.4	18.0	21.6	25.2	28.8	36.0
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°	13563.4	13563.4	13563.4	13563.4	13563.4	13563.4	13563.4	13563.4	13563.4	13563.4	13563.4
2.5°	13570.6	13376.2	13149.5	12969.5	12760.7	12605.9	12386.3	12249.6	12120.0	12012.0	11932.8
5°	13585.0	13257.5	12785.9	12368.4	11936.4	11526.0	11104.9	10762.9	10456.9	10201.4	10179.8
7.5°	13667.8	13196.3	12458.3	11727.6	10885.3	10071.8	9258.3	8595.9	8092.0	7829.2	7775.2
10°	13808.2	13189.1	12123.6	10957.3	9521.0	8210.8	7246.1	6742.1	6450.5	6346.2	6310.2
12.5°	13955.8	13171.1	11695.2	9870.2	7876.0	6727.7	6198.6	6137.4	6191.4	6198.6	6195.0
15°	14135.8	13160.3	11155.3	8595.9	6673.7	6040.2	6076.2	6205.8	6331.8	6360.6	6360.6
17.5°	14355.4	13135.1	10420.9	7350.5	5921.4	5907.0	6097.8	6270.6	6389.4	6411.0	6411.0
20°	14585.7	13070.3	9517.4	6335.4	5615.4	5824.2	6029.4	6162.6	6245.4	6274.2	6277.8
22.5°	14744.1	12897.5	8477.1	5583.0	5424.7	5665.8	5813.4	5950.2	5950.2	5878.2	5856.6
25°	14776.5	12526.7	7350.5	5068.3	5197.9	5421.1	5572.2	5493.0	5345.5	5287.9	5284.3
27.5°	14657.7	11986.8	6238.2	4701.1	4924.3	5147.5	5122.3	5007.1	4942.3	4884.7	4906.3
30°	14513.7	11338.9	5273.5	4398.8	4607.5	4827.1	4740.7	4701.1	4654.3	4589.5	4603.9
32.5°	14416.5	10615.3	4531.9	4164.8	4395.2	4431.2	4492.3	4488.7	4445.6	4323.2	4316.0
35°	14445.3	9884.6	4035.2	3974.0	4218.8	4204.4	4319.6	4298.0	3999.2	3830.0	3819.2
37.5°	14675.7	9182.7	3743.6	3822.8	3938.0	4028.0	4128.8	3869.6	3765.2	3657.2	3664.4
40°	15114.9	8531.1	3585.2	3740.0	3768.8	3902.0	3668.0	3664.4	3617.6	3520.4	3516.8
42.5°	15611.6	7980.4	3477.2	3700.4	3660.8	3686.0	3437.7	3466.5	3462.9	3401.7	3383.7
45°	15914.0	7472.8	3390.9	3552.8	3563.6	3311.7	3236.1	3268.5	3286.5	3254.1	3250.5
47.5°	15600.8	6889.7	3300.9	3326.1	3419.7	3142.5	3048.9	3052.5	3084.9	3088.5	3074.1
50°	14722.5	6238.2	3192.9	3131.7	3070.5	2966.1	2879.7	2861.7	2894.1	2926.5	2937.3
52.5°	13588.6	5615.4	3012.9	2919.3	2775.3	2775.3	2735.7	2678.1	2721.3	2764.5	2778.9
55°	12757.1	5154.7	2757.3	2652.9	2494.5	2548.5	2541.3	2490.9	2548.5	2580.9	2591.7
57.5°	11054.5	4143.2	2426.2	2393.8	2260.6	2325.4	2339.8	2275.0	2246.2	2253.4	2264.2
60°	6562.1	2674.5	2188.6	2185.0	2066.2	2141.8	2185.0	2120.2	2033.8	2044.6	2059.0
62.5°	2944.5	2044.6	1889.8	1875.4	1871.8	1969.0	2015.8	1954.6	1832.2	1843.0	1857.4
65°	1853.8	1767.4	1641.4	1641.4	1699.0	1781.8	1817.8	1767.4	1627.0	1609.0	1623.4
67.5°	1720.6	1645.0	1515.4	1490.2	1519.0	1587.4	1591.0	1493.8	1411.1	1396.7	1396.7
70°	1544.2	1486.6	1360.7	1310.3	1299.5	1295.9	1285.1	1259.9	1205.9	1191.5	1198.7
72.5°	1277.9	1238.3	1159.1	1105.1	1076.3	1072.7	1029.5	1007.9	961.1	953.9	950.3
75°	845.9	856.7	856.7	849.5	824.3	813.5	766.7	745.1	691.1	669.5	665.9
77.5°	500.3	511.1	525.5	529.1	525.5	525.5	482.4	457.2	403.2	374.4	367.2
80°	306.0	313.2	320.4	331.2	316.8	306.0	266.4	241.2	216.0	198.0	194.4
82.5°	198.0	205.2	208.8	216.0	208.8	194.4	162.0	147.6	129.6	115.2	111.6
85°	111.6	115.2	122.4	122.4	111.6	100.8	82.8	72.0	61.2	54.0	54.0
87.5°	39.6	39.6	39.6	43.2	36.0	32.4	21.6	14.4	10.8	10.8	10.8
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)