

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: P642685

Luminaire Tested: GWS-SA6D-735-U-T4FT-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P642685
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-54)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA6D-735-U-T4FT-W
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34126.4 lumens
Efficiency: N/A
Efficacy: 138.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

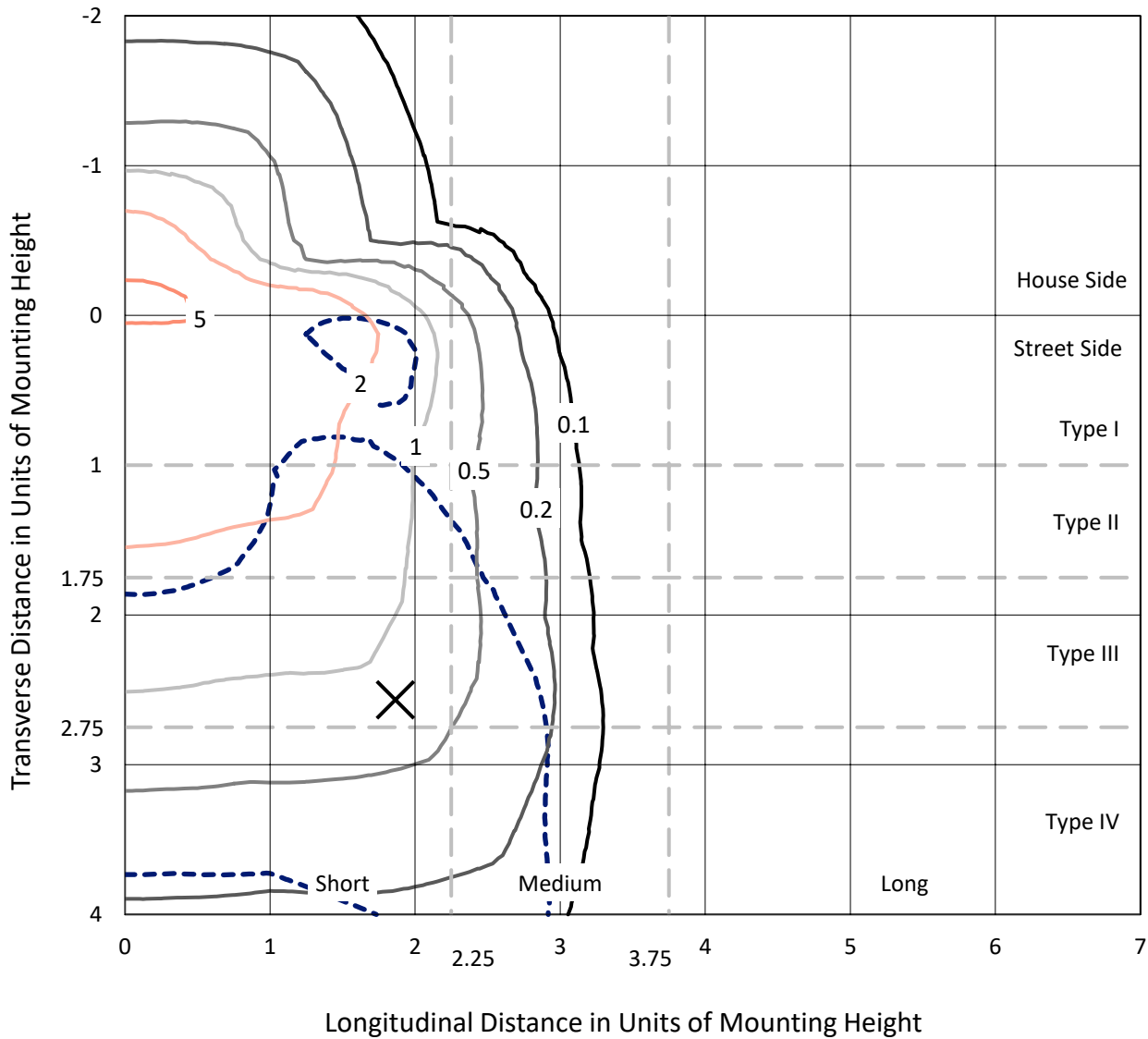
Input Watts (W): 245.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

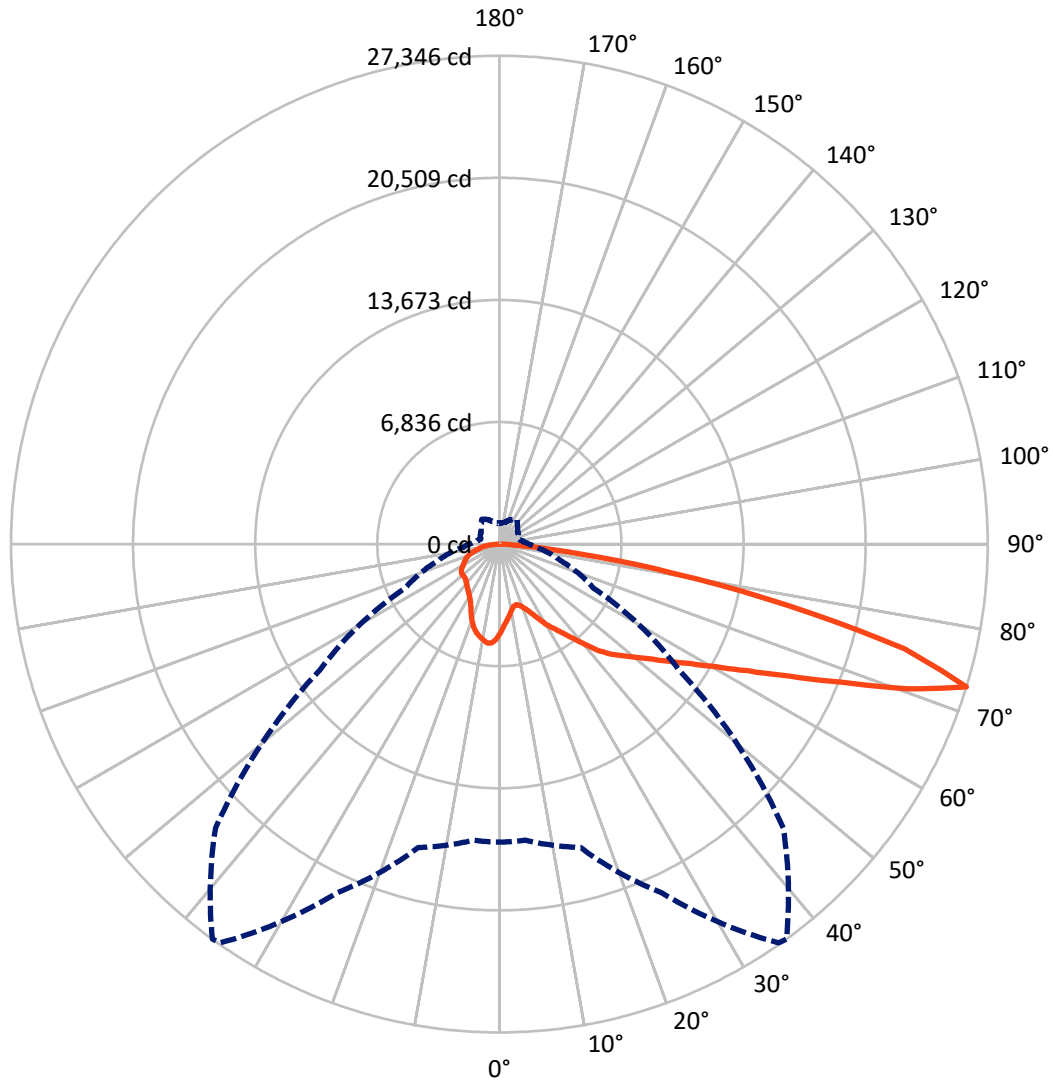
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 36-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7867.6	0.0	7867.6
	% Fixture	23.1	0.0	23.1
Street Side	Lumens	26258.8	0.0	26258.8
	% Fixture	76.9	0.0	76.9
Total	Lumens	34126.4	0.0	34126.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	466.8	1.4
10°-20°	1317.2	3.9
20°-30°	2181.4	6.4
30°-40°	3266.9	9.6
40°-50°	4766.1	14.0
50°-60°	6783.6	19.9
60°-70°	8570.5	25.1
70°-80°	6107.2	17.9
80°-90°	666.7	2.0
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°	34126.4	100.0
0°-180°	34126.4	100.0

Coefficient of Utilization



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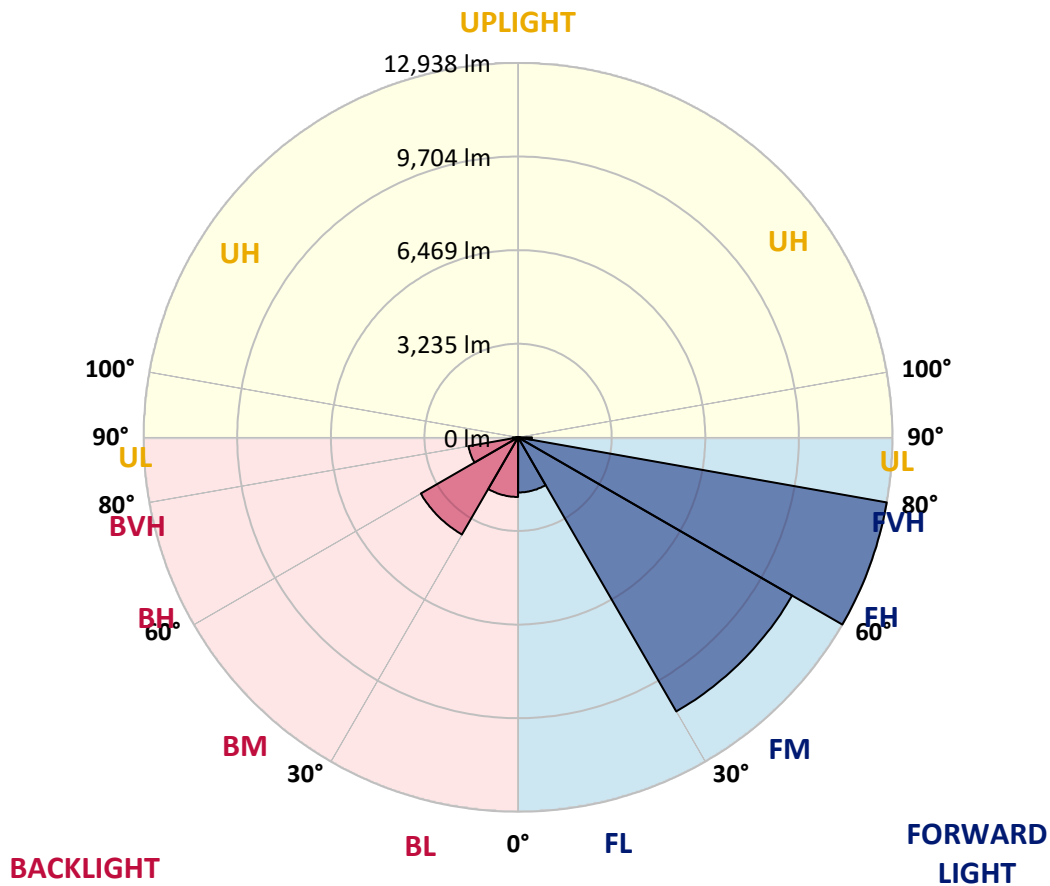
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1905.2	5.6			
FM (30°-60°)	10936.6	32.0			
FH (60°-80°)	12938.4	37.9			G5
FVH (80°-90°)	478.5	1.4			G3/500
BL (0°-30°)	2060.3	6.0	B3/2500		
BM (30°-60°)	3879.8	11.4	B3/5000		
BH (60°-80°)	1739.3	5.1	B3/2500		G3/2500
BVH (80°-90°)	188.2	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	4994.6	4994.6	4994.6	4994.6	4994.6	4994.6	4994.6	4994.6	4994.6	4994.6	4994.6
2.5°	4556.4	4548.8	4533.6	4579.2	4624.8	4619.7	4683.0	4743.8	4809.7	4878.0	4969.2
5°	4191.7	4186.6	4173.9	4242.3	4310.7	4308.2	4412.0	4510.8	4645.0	4791.9	4974.3
7.5°	3827.0	3814.3	3832.0	3918.1	4014.4	4024.5	4166.3	4328.4	4523.5	4743.8	5002.1
10°	3505.3	3502.8	3510.4	3606.6	3751.0	3761.1	3943.5	4168.9	4427.2	4721.0	5065.5
12.5°	3421.7	3416.7	3396.4	3444.5	3553.4	3568.6	3768.7	4044.8	4361.4	4733.7	5151.6
15°	3558.5	3545.8	3474.9	3452.1	3505.3	3518.0	3687.7	3971.3	4323.4	4756.5	5260.5
17.5°	3794.0	3786.4	3652.2	3558.5	3593.9	3604.1	3730.7	3958.7	4313.2	4802.1	5394.7
20°	4138.5	4105.6	3895.3	3753.5	3753.5	3768.7	3844.7	4014.4	4325.9	4857.8	5546.7
22.5°	4594.4	4528.5	4232.2	4039.7	3989.1	4009.3	4042.2	4153.7	4379.1	4951.5	5736.6
25°	5106.0	5045.2	4693.2	4422.2	4351.2	4358.8	4331.0	4351.2	4495.6	5080.7	5972.2
27.5°	5650.5	5610.0	5235.2	4890.7	4779.3	4779.3	4680.5	4632.4	4657.7	5227.6	6235.6
30°	6136.8	6081.1	5764.5	5387.1	5240.2	5240.2	5052.8	4949.0	4888.2	5407.4	6587.6
32.5°	6392.6	6359.7	6149.5	5860.7	5680.9	5653.1	5491.0	5369.4	5227.6	5673.3	7063.8
35°	6726.9	6719.3	6592.7	6367.3	6139.3	6098.8	5987.4	5891.1	5645.5	6005.1	7697.0
37.5°	7147.4	7134.7	7114.4	6980.2	6706.7	6699.1	6600.3	6483.8	6164.7	6483.8	8464.4
40°	7618.5	7595.7	7570.3	7567.8	7403.2	7375.3	7367.7	7236.0	6790.3	7061.3	9264.7
42.5°	8266.8	8188.3	7950.3	8056.6	8178.2	8152.9	8249.1	8051.6	7570.3	7747.6	10022.0
45°	9064.7	8872.2	8401.1	8431.5	8737.9	8788.6	9122.9	9074.8	8428.9	8540.4	10819.8
47.5°	9543.3	9376.2	8938.0	8912.7	9295.1	9358.5	10085.3	10176.5	9353.4	9495.2	11805.1
50°	9935.9	9819.4	9459.8	9495.2	9900.5	9963.8	11040.2	11235.2	10224.6	10472.9	12949.9
52.5°	10409.5	10242.4	9963.8	10130.9	10627.4	10703.3	12101.4	12311.6	11009.8	11546.7	14135.2
55°	10675.5	10607.1	10612.2	10868.0	11491.0	11594.9	13213.3	13177.8	11729.1	12466.1	15026.7
57.5°	11288.4	11263.1	11496.1	11592.3	12499.0	12633.3	14325.1	14021.2	12382.5	13177.8	15454.7
60°	12369.9	12306.6	12509.2	12656.1	13745.1	13935.1	15566.2	14846.9	12825.8	13707.2	15310.4
62.5°	13889.5	13811.0	13818.6	14051.6	15414.2	15614.3	16946.5	15535.8	12962.5	13788.2	14396.1
65°	15778.9	15665.0	15535.8	15852.4	17630.4	17797.5	18448.4	16037.3	12635.8	13008.1	12486.4
67.5°	17772.2	17678.5	17526.5	18190.1	20499.9	20601.3	20132.7	15994.2	11599.9	10921.1	8758.2
70°	17888.7	17911.5	18630.8	21031.8	24245.9	24271.2	21725.8	15128.0	9393.9	7079.0	4363.9
72.5°	16688.2	16650.2	17587.3	21551.0	27259.8	27345.9	22478.0	12255.9	5805.0	3530.6	2046.4
75°	13555.2	13621.0	14606.3	18856.2	23364.5	23440.5	18324.3	7225.9	2758.1	1727.3	1309.4
77.5°	5835.4	6202.7	8145.3	13284.2	16733.8	16498.2	9444.6	2927.8	1471.5	1230.9	1003.0
80°	1684.3	1828.6	2902.5	6316.6	10027.1	9849.8	3738.3	1096.7	1025.8	924.4	719.3
82.5°	544.5	602.8	1063.7	2515.0	4493.1	4488.0	1418.3	648.4	671.2	628.1	463.5
85°	152.0	174.8	326.7	762.4	1390.5	1362.6	410.3	306.5	357.1	362.2	230.5
87.5°	0.0	0.0	2.5	5.1	5.1	5.1	10.1	45.6	103.8	131.7	93.7
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°	4994.6	4994.6	4994.6	4994.6	4994.6	4994.6	4994.6	4994.6	4994.6	4994.6	4994.6
2.5°	5024.9	5017.3	5121.2	5202.2	5278.2	5328.9	5344.1	5354.2	5374.5	5384.6	5374.5
5°	5060.4	5098.4	5270.6	5397.3	5498.6	5559.4	5561.9	5556.8	5572.0	5559.4	5551.8
7.5°	5136.4	5209.8	5427.6	5561.9	5627.7	5630.3	5569.5	5498.6	5463.1	5432.7	5422.6
10°	5237.7	5346.6	5584.7	5673.3	5653.1	5559.4	5425.1	5313.7	5250.4	5204.8	5194.6
12.5°	5377.0	5498.6	5724.0	5721.4	5594.8	5427.6	5270.6	5136.4	5045.2	4992.0	4974.3
15°	5508.7	5663.2	5825.3	5706.2	5506.2	5303.5	5100.9	4921.1	4799.5	4716.0	4700.8
17.5°	5670.8	5835.4	5898.7	5658.1	5394.7	5133.9	4862.8	4627.3	4462.7	4363.9	4356.3
20°	5858.2	6005.1	5934.2	5574.5	5250.4	4908.4	4541.2	4277.8	4100.5	4004.3	4011.9
22.5°	6076.0	6182.4	5944.3	5460.6	5050.3	4589.3	4179.0	3925.7	3806.7	3756.0	3758.6
25°	6309.0	6377.4	5926.6	5306.1	4743.8	4199.3	3806.7	3690.2	3680.1	3667.4	3672.5
27.5°	6585.1	6569.9	5873.4	5088.3	4331.0	3745.9	3545.8	3576.2	3616.7	3611.7	3616.7
30°	6954.9	6810.5	5805.0	4786.9	3839.6	3366.0	3391.3	3477.4	3530.6	3535.7	3550.9
32.5°	7377.9	7076.5	5696.1	4376.6	3371.1	3153.3	3247.0	3350.8	3414.1	3426.8	3447.1
35°	7881.9	7380.4	5503.6	3865.0	3034.2	3026.6	3112.7	3183.6	3252.0	3257.1	3257.1
37.5°	8461.9	7684.3	5197.2	3300.2	2826.5	2917.7	2998.8	3014.0	3031.7	3016.5	3024.1
40°	8993.7	7978.1	4761.5	2786.0	2656.8	2821.5	2889.8	2839.2	2783.5	2745.5	2753.1
42.5°	9439.5	8178.2	4184.1	2426.4	2484.6	2735.4	2788.5	2684.7	2575.8	2504.9	2515.0
45°	9941.0	8363.1	3505.3	2183.2	2337.7	2674.6	2710.0	2575.8	2436.5	2330.1	2314.9
47.5°	10632.4	8740.5	2902.5	2013.5	2233.9	2641.6	2699.9	2517.5	2335.2	2175.6	2157.9
50°	11485.9	9274.9	2398.5	1902.1	2185.7	2623.9	2697.4	2454.2	2236.4	2049.0	2036.3
52.5°	12418.0	9796.6	2026.2	1816.0	2137.6	2570.7	2684.7	2383.3	2132.6	1929.9	1914.7
55°	13038.5	10001.8	1775.4	1734.9	2059.1	2487.1	2634.0	2314.9	1975.5	1790.6	1767.8
57.5°	13220.9	9738.4	1600.7	1661.5	1957.8	2370.6	2537.8	2170.6	1879.3	1732.4	1714.7
60°	12906.8	9074.8	1491.8	1600.7	1846.4	2221.2	2370.6	2087.0	1803.3	1671.6	1658.9
62.5°	12020.4	8051.6	1408.2	1537.4	1732.4	2064.2	2264.3	1985.7	1719.7	1615.9	1598.2
65°	10237.3	6602.8	1339.8	1471.5	1623.5	1914.7	2147.8	1884.4	1628.5	1550.0	1529.8
67.5°	7160.0	4637.4	1266.4	1393.0	1514.6	1770.4	2026.2	1790.6	1534.8	1476.6	1456.3
70°	3500.2	2459.3	1177.7	1301.8	1398.1	1623.5	1904.6	1676.7	1410.7	1377.8	1349.9
72.5°	1666.5	1375.3	1073.9	1177.7	1238.5	1428.5	1702.0	1512.0	1263.8	1192.9	1144.8
75°	1116.9	977.6	937.1	1030.8	1046.0	1198.0	1458.9	1304.4	1114.4	1033.4	992.8
77.5°	845.9	747.2	787.7	871.3	840.9	985.2	1200.5	1162.5	1005.5	932.0	911.8
80°	595.2	544.5	625.6	676.2	653.4	838.3	1081.5	995.4	828.2	747.2	732.0
82.5°	374.8	364.7	461.0	468.6	476.2	663.6	889.0	782.6	643.3	529.3	491.4
85°	187.4	207.7	276.1	276.1	273.5	341.9	506.5	440.7	347.0	276.1	268.5
87.5°	63.3	88.6	119.0	96.2	73.4	58.3	65.9	81.0	86.1	83.6	83.6
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)