

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: P643443

Luminaire Tested: GWS-SA6E-830-U-T2R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643443
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-13)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SAGE-830-U-T2R-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (96) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31296.8 lumens
Efficiency: N/A
Efficacy: 96.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

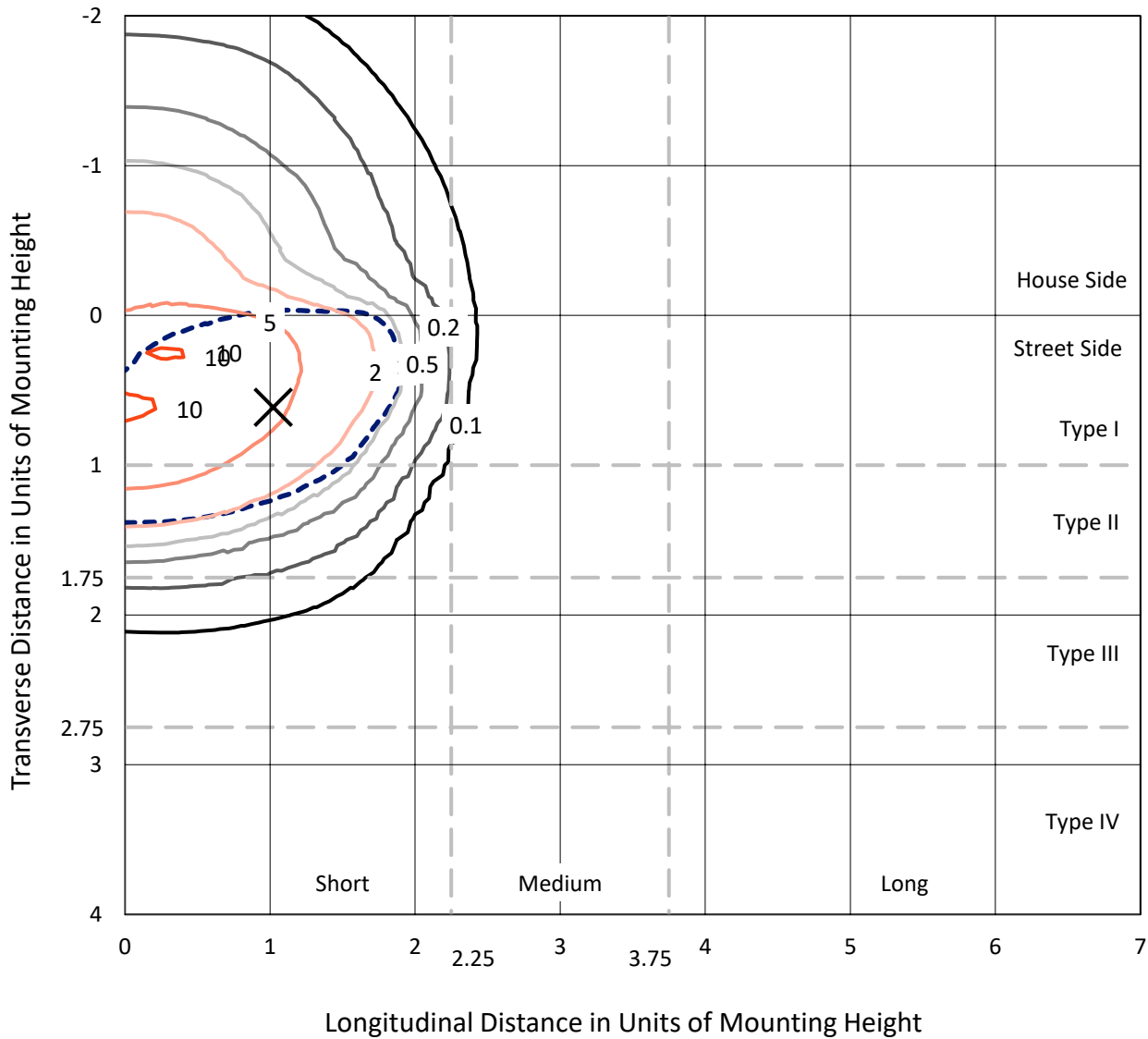
Input Watts (W): 323.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

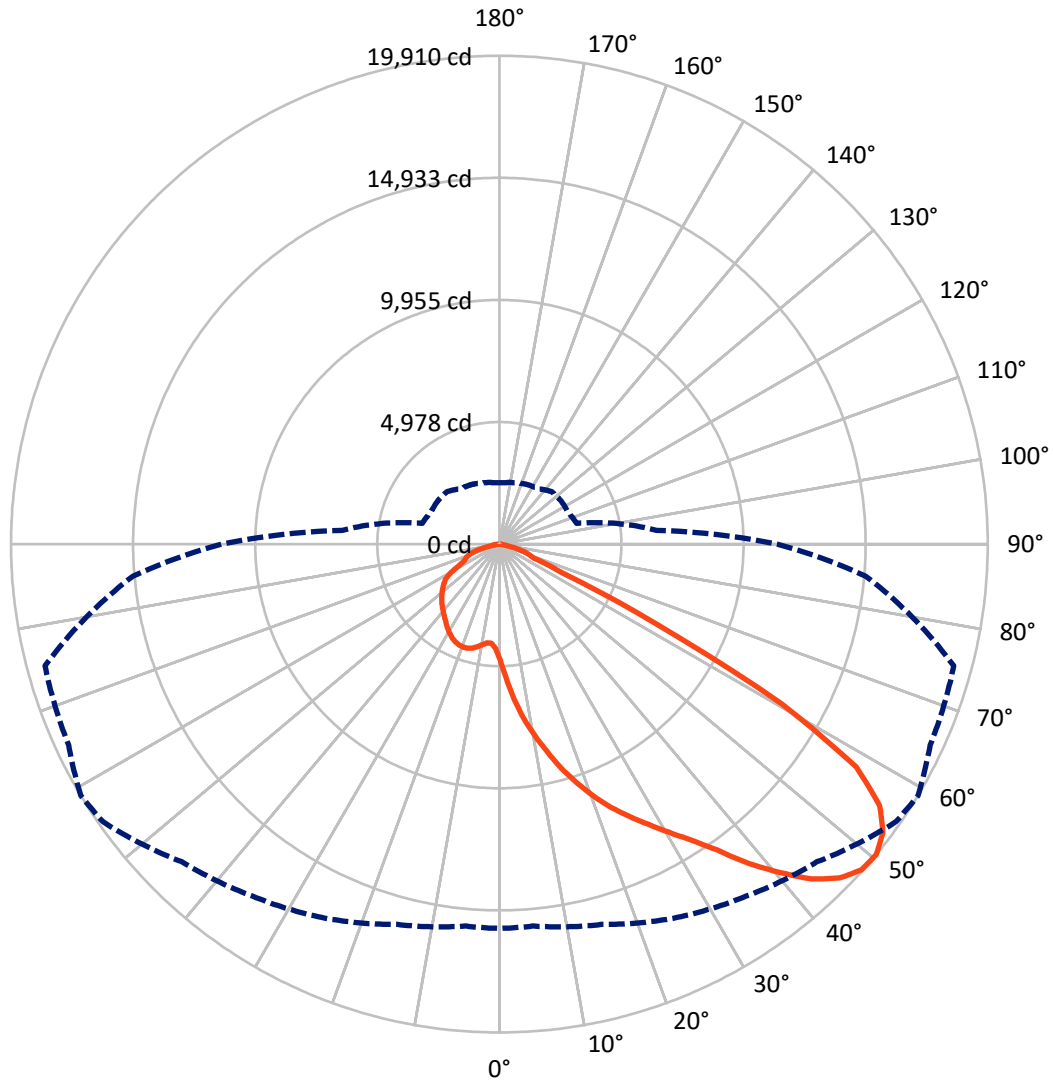
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7198.9	0.0	7198.9
	% Fixture	23.0	0.0	23.0
Street Side	Lumens	24097.9	0.0	24097.9
	% Fixture	77.0	0.0	77.0
Total	Lumens	31296.8	0.0	31296.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	531.9	1.7
10°-20°	1931.0	6.2
20°-30°	3656.6	11.7
30°-40°	6063.7	19.4
40°-50°	8283.4	26.5
50°-60°	7519.2	24.0
60°-70°	2504.0	8.0
70°-80°	730.3	2.3
80°-90°	76.7	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°	31296.8	100.0
0°-180°	31296.8	100.0

Coefficient of Utilization



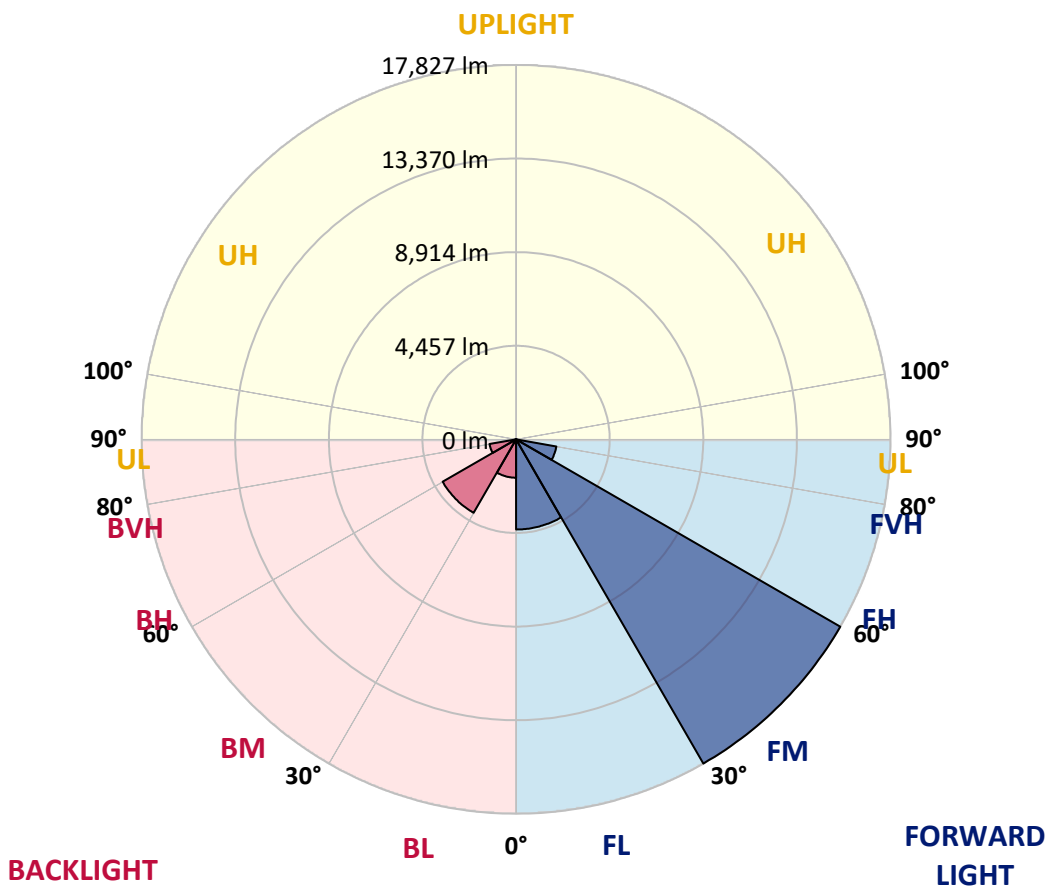
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4291.6	13.7			
FM (30°-60°)	17827.0	57.0			
FH (60°-80°)	1949.4	6.2			G2/5000
FVH (80°-90°)	30.0	0.1			G1/100
BL (0°-30°)	1828.0	5.8	B3/2500		
BM (30°-60°)	4039.3	12.9	B3/5000		
BH (60°-80°)	1284.9	4.1	B3/2500		G3/2500
BVH (80°-90°)	46.7	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-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	4741.7	4741.7	4741.7	4741.7	4741.7	4741.7	4741.7	4741.7	4741.7	4741.7	4741.7
2.5°	6143.8	6189.7	6118.3	6123.4	5945.0	5863.4	5633.9	5498.8	5409.6	5159.8	4932.9
5°	7382.8	7329.2	7273.1	7240.0	7084.5	6865.2	6579.7	6352.8	6143.8	5654.3	5182.7
7.5°	8142.4	8114.4	8076.2	8055.8	7902.8	7673.4	7387.9	7194.1	6890.7	6227.9	5486.1
10°	8787.4	8754.3	8731.3	8746.6	8621.7	8473.9	8162.8	7941.1	7599.4	6834.7	5853.2
12.5°	9287.1	9304.9	9312.6	9394.1	9340.6	9251.4	8930.2	8695.6	8315.8	7474.5	6284.0
15°	9682.2	9677.1	9766.3	9921.9	10008.5	9952.4	9695.0	9498.7	9034.7	8104.2	6748.0
17.5°	9774.0	9779.1	9919.3	10192.1	10475.0	10612.7	10467.4	10232.9	9774.0	8726.2	7229.8
20°	9847.9	9858.1	10003.4	10314.4	10727.4	11112.4	11135.3	10967.1	10571.9	9399.2	7719.3
22.5°	10314.4	10337.4	10375.6	10571.9	10944.1	11431.0	11698.7	11663.0	11331.6	10105.4	8247.0
25°	11540.7	11471.8	11285.7	11229.6	11372.4	11767.5	12223.9	12292.7	12129.5	10882.9	8815.5
27.5°	13054.9	12981.0	12705.7	12415.1	12106.6	12244.3	12731.2	12937.7	12940.2	11739.5	9386.5
30°	14429.0	14370.4	14146.0	13730.5	13197.7	12998.8	13358.3	13636.2	13801.9	12728.6	10036.6
32.5°	15604.2	15550.7	15247.3	14908.3	14388.2	13988.0	14118.0	14385.7	14773.2	14008.4	10844.7
35°	16593.4	16539.8	16249.2	15907.6	15425.8	15186.1	15140.3	15323.8	15826.0	15344.2	11772.6
37.5°	17396.4	17342.8	17039.5	16718.3	16351.2	16366.5	16435.3	16524.5	16812.6	16774.4	12764.3
40°	17916.4	17860.4	17643.7	17414.2	17182.2	17365.8	17707.4	17600.3	17753.3	17929.2	13677.0
42.5°	18148.4	18077.0	17952.1	17901.1	17829.8	18115.3	18773.0	18665.9	18482.4	18699.1	14355.1
45°	17916.4	17855.3	17852.7	18008.2	18173.9	18541.0	19509.7	19423.1	18959.1	19071.3	14760.4
47.5°	17205.2	17151.6	17297.0	17704.8	18112.7	18648.1	19838.6	19853.9	19298.2	19226.8	15023.0
50°	15668.0	15632.3	16052.9	16825.3	17528.9	18314.1	19734.1	19910.0	19379.7	19178.3	14989.8
52.5°	12542.5	12708.2	13623.4	14913.4	16279.8	17727.8	19346.6	19576.0	18987.1	18859.7	14811.4
55°	8586.0	8662.5	9577.7	11461.6	13628.5	16458.2	18456.9	18811.2	18523.2	18806.1	14997.5
57.5°	4446.0	4507.2	5228.6	6900.9	9243.7	13006.5	15986.6	17149.1	17587.6	19076.4	15576.2
60°	1825.3	1876.3	2174.5	2982.7	4662.7	7574.0	11505.0	13228.3	14258.2	17421.9	13832.5
62.5°	1325.6	1351.1	1493.9	1779.4	2442.2	3711.8	6510.9	7145.7	7869.7	10918.6	8782.3
65°	1116.6	1144.6	1259.4	1432.7	1782.0	2276.5	2781.3	2796.6	3082.1	4448.5	3255.4
67.5°	935.6	961.1	1063.1	1210.9	1440.4	1616.3	1493.9	1496.4	1491.3	1613.7	1560.2
70°	729.1	749.5	851.5	1009.5	1129.3	1037.6	1167.6	1292.5	1239.0	1287.4	1361.3
72.5°	532.8	555.7	645.0	764.8	734.2	739.3	945.8	1073.3	1042.7	1096.2	1165.0
75°	384.9	400.2	446.1	382.4	402.8	486.9	665.4	734.2	764.8	810.7	871.9
77.5°	124.9	124.9	140.2	175.9	219.2	270.2	339.1	367.1	413.0	464.0	507.3
80°	63.7	66.3	79.0	96.9	122.4	155.5	198.8	211.6	234.5	262.6	280.4
82.5°	30.6	33.1	38.2	48.4	63.7	81.6	109.6	122.4	137.7	155.5	168.3
85°	7.6	7.6	10.2	15.3	20.4	30.6	40.8	48.4	61.2	73.9	81.6
87.5°	0.0	0.0	0.0	0.0	0.0	2.5	7.6	10.2	12.7	15.3	20.4
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°	4741.7	4741.7	4741.7	4741.7	4741.7	4741.7	4741.7	4741.7	4741.7	4741.7	4741.7
2.5°	4830.9	4688.2	4504.6	4349.1	4206.3	4096.7	4002.4	3956.5	3913.2	3882.6	3892.8
5°	4963.5	4718.7	4377.1	4140.1	3994.7	3920.8	3869.8	3844.3	3839.2	3818.8	3811.2
7.5°	5157.2	4808.0	4351.6	4112.0	4015.1	3976.9	3948.9	3933.6	3941.2	3920.8	3913.2
10°	5396.9	4955.8	4415.4	4203.8	4119.7	4091.6	4061.0	4040.6	4030.4	3999.8	3994.7
12.5°	5695.1	5139.4	4530.1	4321.1	4236.9	4188.5	4147.7	4112.0	4089.1	4050.8	4040.6
15°	6016.3	5343.3	4665.2	4435.8	4336.3	4265.0	4198.7	4145.2	4104.4	4053.4	4045.7
17.5°	6365.6	5557.5	4777.4	4514.8	4387.3	4293.0	4196.1	4117.1	4061.0	3994.7	3987.1
20°	6730.1	5774.2	4861.5	4553.0	4389.9	4262.4	4132.4	4027.9	3956.5	3890.2	3885.1
22.5°	7107.4	5973.0	4912.5	4542.8	4349.1	4191.0	4035.5	3918.3	3834.1	3755.1	3750.0
25°	7487.3	6164.2	4925.2	4502.1	4267.5	4084.0	3928.5	3790.8	3696.5	3607.3	3597.1
27.5°	7872.2	6324.8	4894.6	4420.5	4157.9	3959.1	3803.5	3668.4	3571.6	3482.3	3467.0
30°	8282.7	6462.5	4828.4	4313.4	4030.4	3826.5	3673.5	3571.6	3479.8	3390.6	3375.3
32.5°	8721.1	6582.3	4734.0	4183.4	3882.6	3693.9	3581.8	3490.0	3398.2	3319.2	3303.9
35°	9243.7	6661.3	4593.8	4015.1	3744.9	3597.1	3520.6	3413.5	3301.3	3214.7	3207.0
37.5°	9784.2	6722.5	4425.6	3854.5	3625.1	3541.0	3477.2	3331.9	3191.7	3087.2	3074.4
40°	10306.8	6773.5	4216.5	3704.1	3515.5	3500.2	3413.5	3232.5	2990.3	2873.1	2862.9
42.5°	10793.7	6788.8	3997.3	3543.5	3416.1	3408.4	3311.5	3031.1	2845.0	2771.1	2760.9
45°	11127.7	6776.0	3770.4	3393.1	3316.6	3275.8	3173.9	2885.8	2771.1	2704.8	2692.1
47.5°	11374.9	6709.7	3515.5	3235.1	3204.5	3148.4	2929.1	2794.0	2687.0	2620.7	2607.9
50°	11331.6	6434.4	3258.0	3082.1	3069.3	3020.9	2750.7	2679.3	2585.0	2513.6	2503.4
52.5°	11107.3	5911.8	2995.4	2913.8	2939.3	2845.0	2623.2	2541.6	2460.1	2378.5	2360.6
55°	11163.4	5534.5	2796.6	2750.7	2796.6	2582.4	2480.5	2393.8	2317.3	2238.3	2223.0
57.5°	11408.1	5162.3	2585.0	2574.8	2623.2	2381.0	2296.9	2187.3	2077.7	2013.9	2013.9
60°	9580.2	3762.8	2212.8	2238.3	2347.9	2217.9	2144.0	2031.8	1912.0	1855.9	1855.9
62.5°	5664.5	2360.6	1835.5	1807.4	1876.3	1957.9	1998.6	1906.9	1764.1	1690.2	1692.7
65°	2495.8	1718.2	1618.8	1595.9	1575.5	1631.5	1743.7	1751.4	1601.0	1514.3	1516.8
67.5°	1537.2	1555.1	1514.3	1496.4	1478.6	1468.4	1458.2	1463.3	1422.5	1343.5	1340.9
70°	1386.8	1435.3	1407.2	1391.9	1369.0	1351.1	1289.9	1190.5	1121.7	1101.3	1124.2
72.5°	1193.1	1259.4	1244.1	1236.4	1208.4	1165.0	1083.4	986.6	905.0	854.0	864.2
75°	899.9	953.4	961.1	963.6	933.0	892.3	808.1	726.5	655.2	601.6	614.4
77.5°	517.5	548.1	555.7	563.4	540.5	525.2	469.1	410.4	372.2	316.1	331.4
80°	288.1	300.8	300.8	303.4	290.6	272.8	234.5	201.4	183.5	158.1	160.6
82.5°	173.4	178.5	181.0	183.5	175.9	158.1	130.0	107.1	96.9	84.1	81.6
85°	84.1	89.2	89.2	91.8	79.0	68.8	53.5	40.8	35.7	25.5	28.0
87.5°	20.4	22.9	22.9	20.4	17.8	12.7	7.6	2.5	0.0	0.0	0.0
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)