

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: P635806

Luminaire Tested: GWS-SA3E-740-U-T3R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P635806
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-17)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA3E-740-U-T3R-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (48) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19280.7 lumens
Efficiency: N/A
Efficacy: 121.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

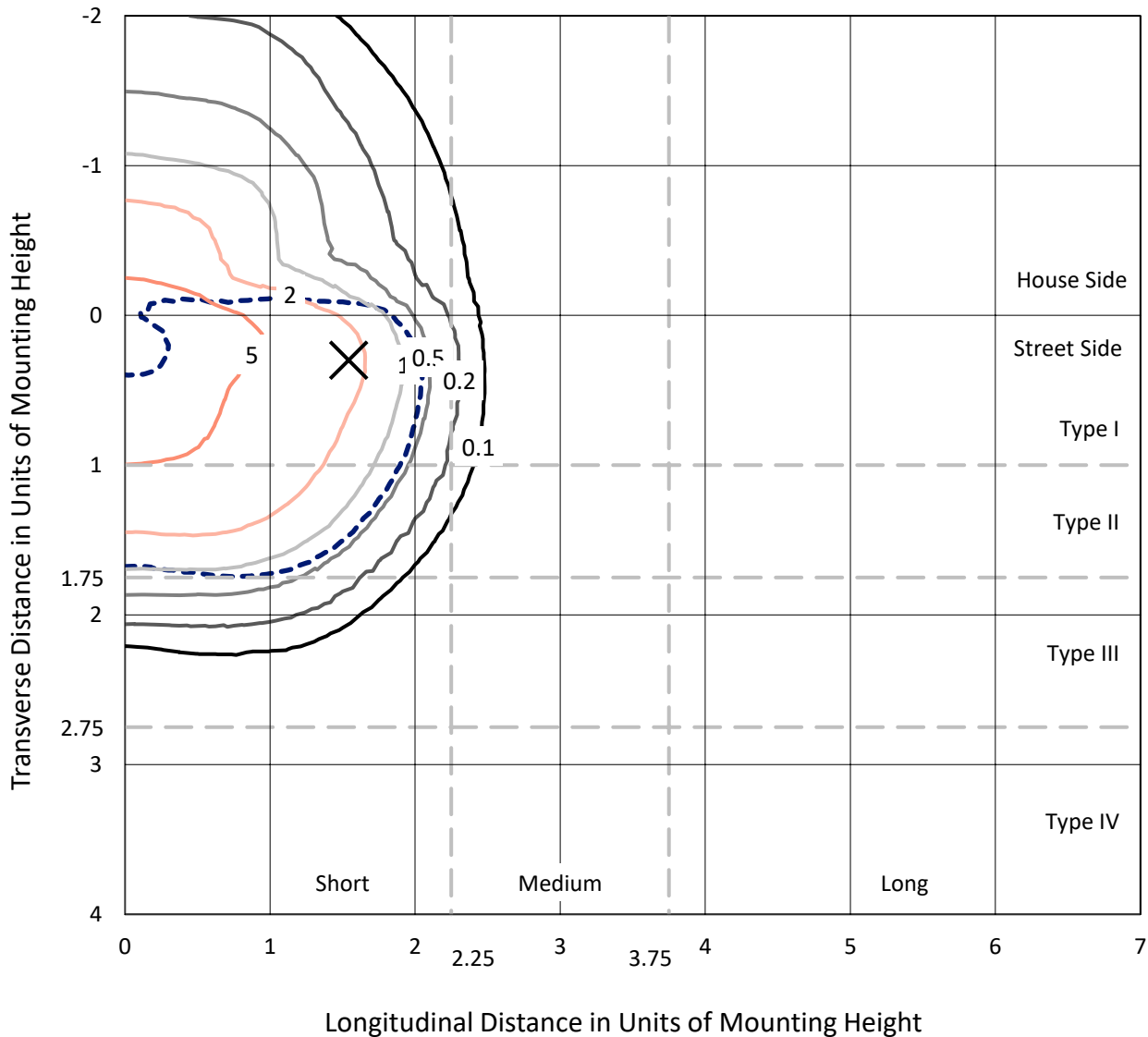
Input Watts (W): 159.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

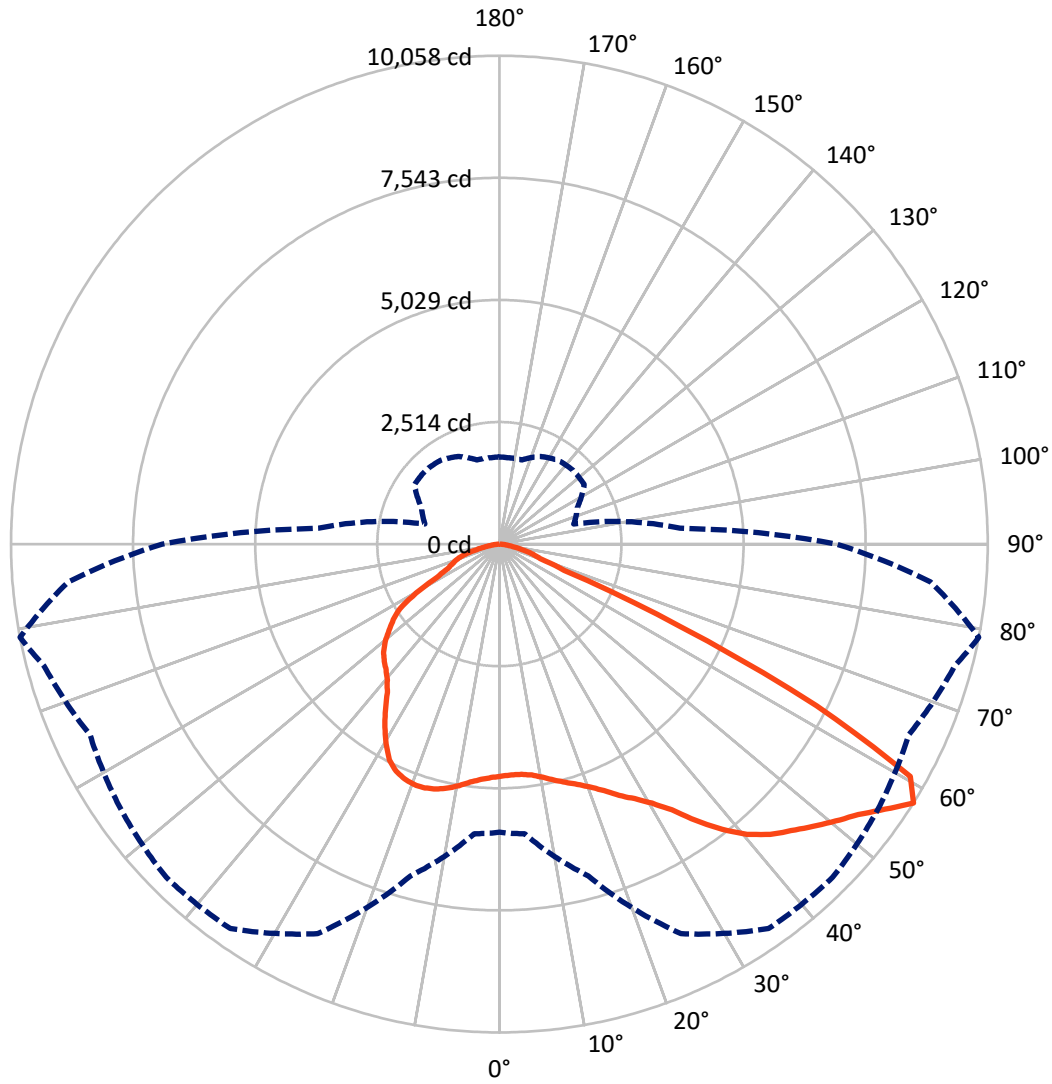
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5731.3	0.0	5731.3
	% Fixture	29.7	0.0	29.7
Street Side	Lumens	13549.4	0.0	13549.4
	% Fixture	70.3	0.0	70.3
Total	Lumens	19280.7	0.0	19280.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	442.5	2.3
10°-20°	1229.7	6.4
20°-30°	2084.4	10.8
30°-40°	3190.5	16.5
40°-50°	4254.2	22.1
50°-60°	4913.3	25.5
60°-70°	2553.1	13.2
70°-80°	542.7	2.8
80°-90°	70.3	0.4
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°	19280.7	100.0
0°-180°	19280.7	100.0

Coefficient of Utilization



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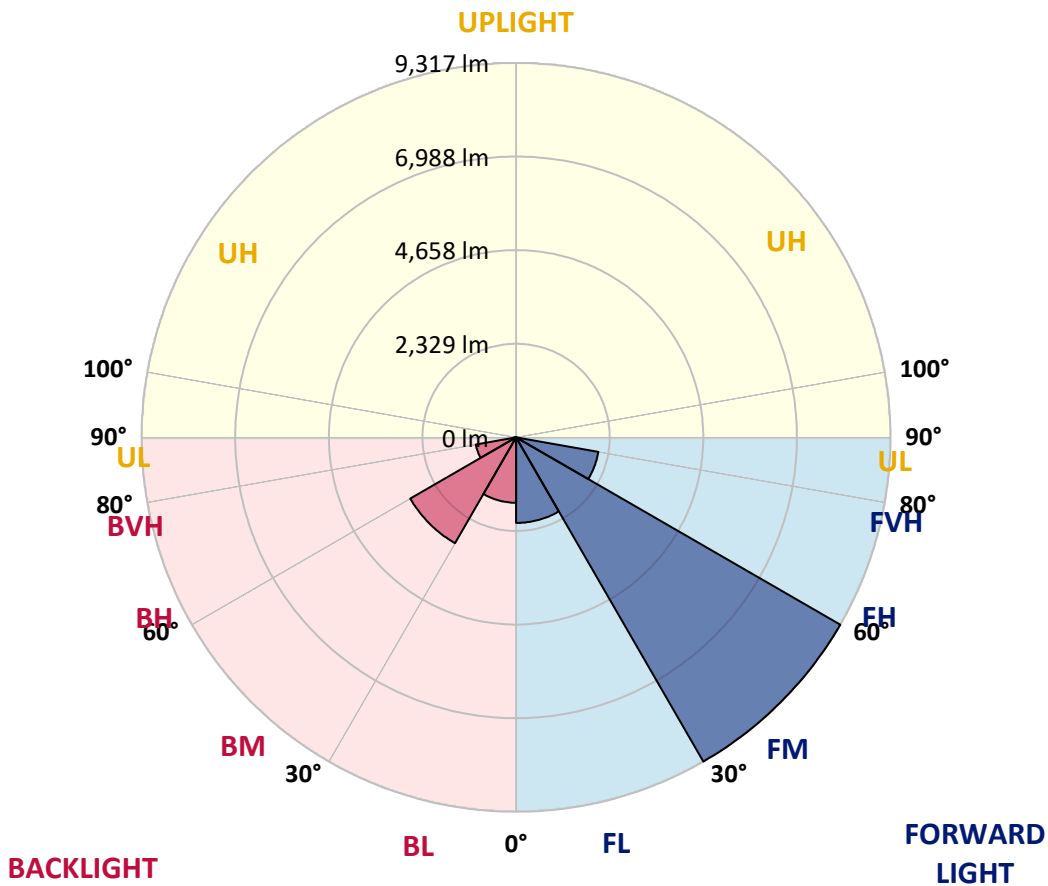
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2129.0	11.0			
FM (30°-60°)	9317.0	48.3			
FH (60°-80°)	2078.9	10.8			G2/5000
FVH (80°-90°)	24.5	0.1			G1/100
BL (0°-30°)	1627.6	8.4	B3/2500		
BM (30°-60°)	3041.0	15.8	B3/5000		
BH (60°-80°)	1016.9	5.3	B3/2500		G3/2500
BVH (80°-90°)	45.8	0.2			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°	65°	75°	79°	85°
0°	4778.2	4778.2	4778.2	4778.2	4778.2	4778.2	4778.2	4778.2	4778.2	4778.2	4778.2
2.5°	4560.7	4551.2	4554.3	4567.0	4614.3	4648.9	4685.2	4718.3	4749.8	4759.3	4767.2
5°	4398.3	4380.9	4385.7	4406.2	4461.3	4519.7	4584.3	4663.1	4738.8	4764.0	4797.1
7.5°	4283.2	4280.0	4287.9	4319.5	4377.8	4433.0	4516.5	4628.4	4759.3	4801.8	4860.2
10°	4130.3	4124.0	4155.5	4220.1	4316.3	4404.6	4503.9	4636.3	4819.2	4882.2	4972.1
12.5°	4008.9	4005.7	4038.9	4128.7	4251.7	4392.0	4529.1	4677.3	4899.6	4986.3	5096.6
15°	4079.8	4065.7	4067.2	4130.3	4240.6	4406.2	4592.2	4751.4	4980.0	5090.3	5232.2
17.5°	4286.4	4261.1	4242.2	4253.2	4316.3	4488.1	4688.3	4850.7	5073.0	5202.3	5375.7
20°	4571.7	4557.5	4505.5	4470.8	4485.0	4636.3	4839.7	4991.0	5194.4	5339.4	5525.4
22.5°	4954.8	4920.1	4849.1	4794.0	4751.4	4869.6	5057.2	5188.1	5363.1	5514.4	5708.3
25°	5429.3	5378.8	5266.9	5180.2	5088.8	5210.1	5377.3	5476.6	5594.8	5735.1	5919.5
27.5°	5913.2	5870.7	5746.1	5629.5	5516.0	5591.6	5790.3	5847.0	5834.4	5936.9	6094.5
30°	6428.7	6375.1	6256.9	6130.8	5984.2	6033.1	6211.2	6239.6	6105.6	6190.7	6297.9
32.5°	6972.6	6920.6	6818.1	6671.5	6506.0	6524.9	6573.8	6600.6	6472.9	6521.8	6603.7
35°	7525.9	7477.1	7373.0	7228.0	7106.6	6991.5	6868.6	6975.8	6901.7	6996.3	6990.0
37.5°	8032.0	7983.1	7918.5	7806.6	7598.5	7371.5	7087.7	7220.1	7335.2	7455.0	7434.5
40°	8374.1	8341.0	8356.7	8339.4	8071.4	7622.1	7194.9	7339.9	7653.6	7858.6	7847.5
42.5°	8668.9	8635.8	8727.2	8793.4	8478.1	7853.8	7246.9	7385.6	7857.0	8177.0	8161.3
45°	8799.7	8790.3	8941.6	9151.3	8850.2	8099.8	7380.9	7480.2	8011.5	8421.4	8361.5
47.5°	8643.6	8676.8	8974.7	9329.4	9159.1	8391.4	7655.2	7680.4	8213.3	8686.2	8517.5
50°	8333.1	8405.6	8807.6	9334.1	9384.6	8720.9	8035.1	7972.1	8484.4	8968.4	8599.5
52.5°	7880.6	7956.3	8612.1	9297.9	9513.8	9102.4	8541.2	8451.3	8826.5	9250.6	8613.7
55°	6841.8	6944.2	8164.4	9215.9	9640.0	9449.2	9111.8	8929.0	9267.9	9638.4	8754.0
57.5°	5935.3	5988.9	7073.5	8851.7	9665.2	9704.6	9518.6	9301.0	9706.2	10057.7	8911.6
60°	4355.7	4368.3	5344.1	7324.2	8891.1	9556.4	9485.5	9162.3	9498.1	9721.9	8189.6
62.5°	2460.8	2462.4	3241.2	4888.6	6641.6	7789.2	7833.4	7548.0	7265.8	7332.0	5700.4
65°	923.8	1010.5	1480.3	2402.5	3829.2	4598.5	4781.4	4847.6	4377.8	4086.1	3056.7
67.5°	618.0	638.5	863.9	1235.9	1704.1	1967.4	2200.7	2207.0	1614.3	1439.3	1204.4
70°	471.4	491.9	679.4	884.4	863.9	797.7	862.3	838.7	867.0	890.7	915.9
72.5°	351.5	372.0	526.5	624.3	518.7	510.8	578.6	643.2	703.1	728.3	767.7
75°	233.3	249.1	354.7	334.2	286.9	338.9	422.5	487.1	521.8	551.8	581.7
77.5°	148.2	159.2	189.2	152.9	159.2	198.6	245.9	304.3	337.4	367.3	383.1
80°	67.8	66.2	64.6	72.5	89.9	116.7	148.2	182.9	208.1	220.7	230.2
82.5°	26.8	30.0	33.1	39.4	48.9	63.1	83.6	107.2	127.7	130.8	138.7
85°	11.0	12.6	14.2	17.3	22.1	28.4	34.7	48.9	61.5	66.2	70.9
87.5°	0.0	0.0	0.0	0.0	1.6	3.2	4.7	7.9	14.2	15.8	17.3
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°	4778.2	4778.2	4778.2	4778.2	4778.2	4778.2	4778.2	4778.2	4778.2	4778.2	4778.2
2.5°	4809.7	4789.2	4823.9	4847.6	4869.6	4846.0	4838.1	4817.6	4814.5	4814.5	4825.5
5°	4853.9	4839.7	4875.9	4890.1	4888.6	4836.5	4805.0	4764.0	4743.5	4743.5	4746.7
7.5°	4932.7	4924.8	4945.3	4923.2	4872.8	4767.2	4663.1	4576.4	4518.1	4488.1	4497.6
10°	5063.5	5054.1	5036.7	4954.8	4809.7	4590.6	4377.8	4220.1	4125.6	4072.0	4075.1
12.5°	5191.2	5175.5	5114.0	4932.7	4634.7	4286.4	4007.3	3830.8	3726.7	3663.7	3649.5
15°	5331.5	5290.5	5158.1	4819.2	4349.4	3914.3	3622.7	3431.9	3320.0	3282.2	3280.6
17.5°	5465.5	5393.0	5153.4	4617.4	4007.3	3524.9	3231.7	3113.5	3094.6	3111.9	3116.6
20°	5601.1	5484.5	5101.4	4338.4	3600.6	3137.1	2985.8	3034.7	3105.6	3152.9	3163.9
22.5°	5741.4	5560.1	4983.1	3978.9	3171.8	2875.4	2938.5	3045.7	3134.0	3197.0	3203.3
25°	5899.1	5631.1	4806.6	3539.1	2828.1	2802.9	2927.5	3041.0	3135.5	3208.1	3220.7
27.5°	5988.9	5632.6	4559.1	3086.7	2670.5	2774.5	2900.7	3007.9	3102.4	3181.3	3195.5
30°	6077.2	5590.1	4166.5	2719.4	2624.8	2741.4	2854.9	2954.3	3044.1	3121.4	3138.7
32.5°	6201.7	5550.7	3714.1	2508.1	2598.0	2709.9	2802.9	2891.2	2960.6	2995.2	3004.7
35°	6356.2	5500.2	3233.3	2416.7	2580.6	2684.7	2766.7	2814.0	2724.1	2705.2	2725.7
37.5°	6572.2	5452.9	2754.0	2377.3	2569.6	2675.2	2747.7	2626.4	2516.0	2471.9	2487.6
40°	6805.5	5426.1	2429.3	2345.7	2574.3	2684.7	2668.9	2489.2	2330.0	2237.0	2233.8
42.5°	7004.1	5385.1	2221.2	2325.3	2586.9	2720.9	2561.7	2367.8	2131.4	2076.2	2077.8
45°	7138.1	5281.1	2110.9	2303.2	2598.0	2728.8	2511.3	2200.7	2032.0	1997.4	1995.8
47.5°	7193.3	5091.9	2039.9	2268.5	2596.4	2664.2	2408.8	2131.4	1962.7	1953.2	1959.5
50°	7157.1	4781.4	1967.4	2200.7	2558.6	2596.4	2290.6	2069.9	1915.4	1967.4	2005.2
52.5°	7023.1	4379.4	1880.7	2107.7	2490.8	2519.2	2230.7	2032.0	1880.7	1950.1	1980.0
55°	6988.4	4053.0	1770.3	1986.3	2389.9	2382.0	2167.6	2013.1	1857.1	1830.3	1835.0
57.5°	6942.7	3734.6	1587.5	1768.8	2134.5	2147.1	2107.7	1991.0	1795.6	1787.7	1795.6
60°	6031.5	2862.8	1415.6	1526.0	1753.0	1820.8	2039.9	1950.1	1696.3	1663.1	1661.6
62.5°	3939.5	1734.1	1259.6	1330.5	1428.3	1507.1	1860.2	1831.8	1587.5	1567.0	1581.2
65°	2118.7	1235.9	1146.1	1188.6	1242.2	1302.1	1541.8	1631.6	1434.6	1362.0	1363.6
67.5°	1083.0	1051.5	1060.9	1090.9	1131.9	1161.8	1243.8	1322.6	1223.3	1161.8	1160.3
70°	926.9	952.2	966.4	983.7	1010.5	1005.8	1013.7	1027.8	1020.0	990.0	988.4
72.5°	789.8	829.2	832.4	835.5	845.0	822.9	808.7	785.1	786.6	791.4	793.0
75°	600.6	638.5	647.9	643.2	652.6	624.3	605.4	581.7	553.3	548.6	551.8
77.5°	391.0	420.9	435.1	431.9	436.7	414.6	405.1	379.9	346.8	334.2	334.2
80°	236.5	253.8	264.8	268.0	272.7	257.0	241.2	219.1	204.9	190.7	190.7
82.5°	143.5	154.5	162.4	162.4	167.1	149.8	137.2	121.4	115.1	102.5	102.5
85°	72.5	80.4	83.6	82.0	78.8	64.6	59.9	52.0	48.9	42.6	42.6
87.5°	17.3	22.1	22.1	15.8	15.8	7.9	4.7	1.6	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)