

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: P637892

Luminaire Tested: GWS-SA4D-760-U-T3-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637892
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-25)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4D-760-U-T3-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (64) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21087.4 lumens
Efficiency: N/A
Efficacy: 130.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

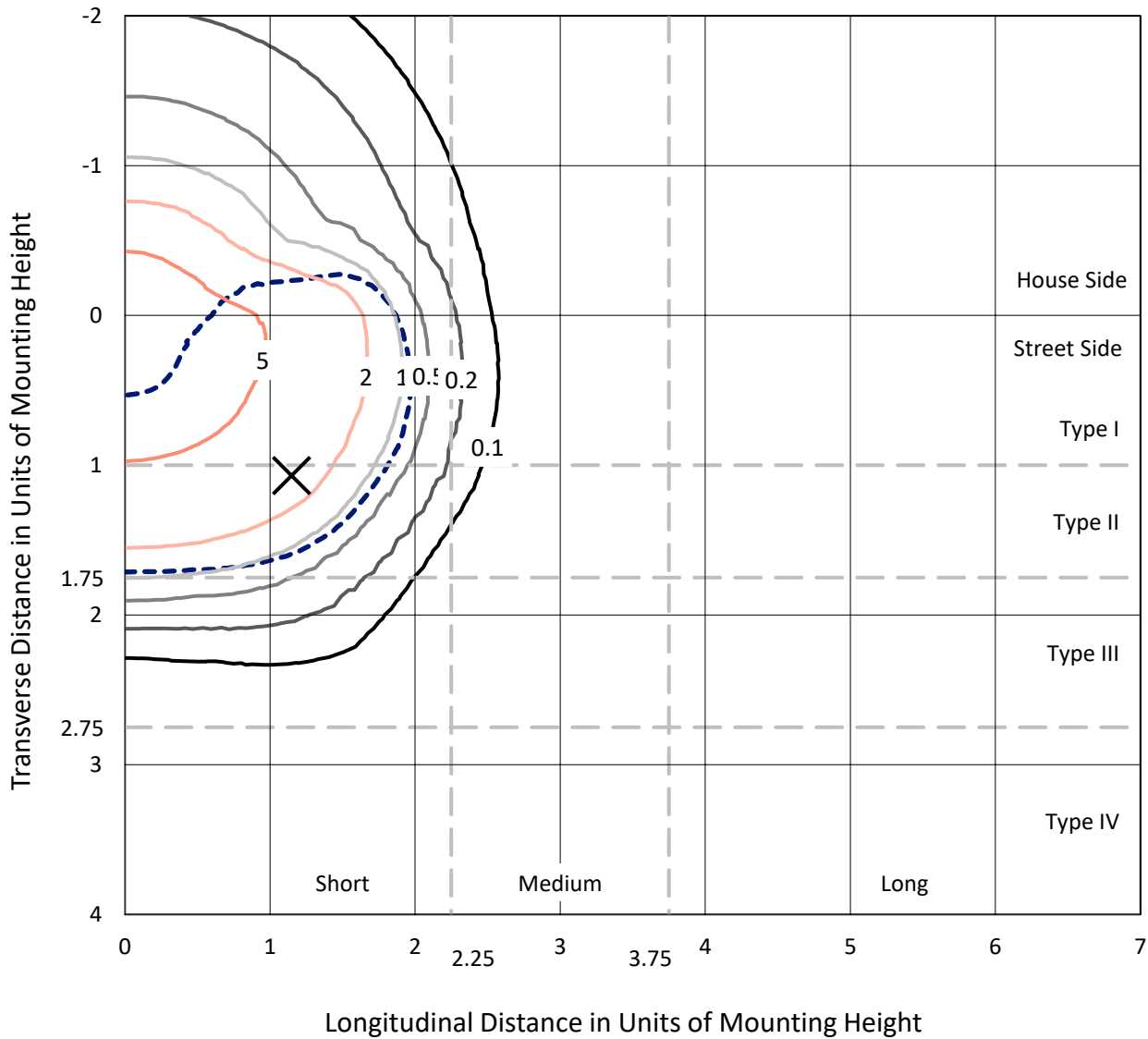
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

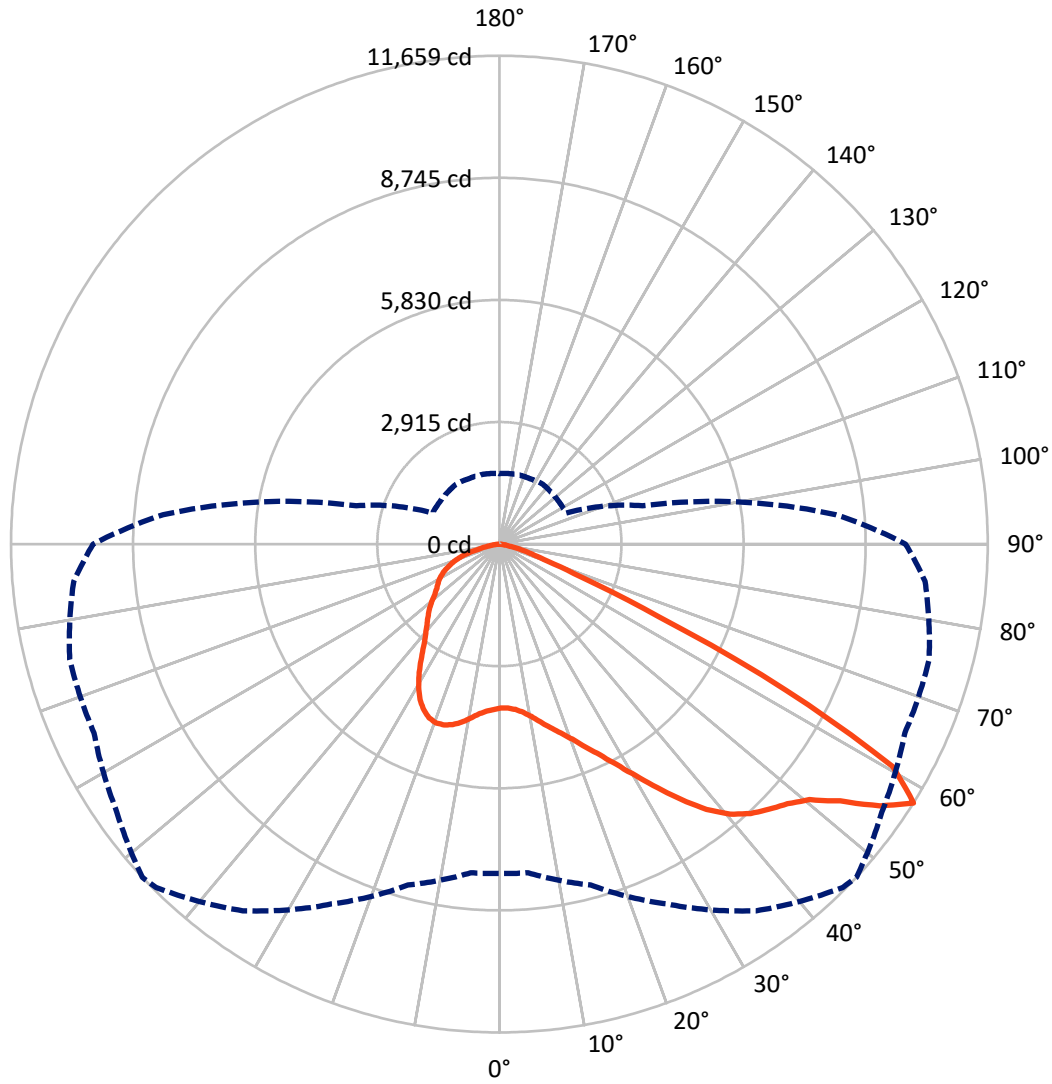
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6674.1	0.0	6674.1
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	14413.3	0.0	14413.3
	% Fixture	68.4	0.0	68.4
Total	Lumens	21087.4	0.0	21087.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	385.7	1.8
10°-20°	1268.6	6.0
20°-30°	2284.3	10.8
30°-40°	3450.2	16.4
40°-50°	4646.1	22.0
50°-60°	5583.0	26.5
60°-70°	2719.0	12.9
70°-80°	669.9	3.2
80°-90°	80.5	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°	21087.4	100.0
0°-180°	21087.4	100.0

Coefficient of Utilization



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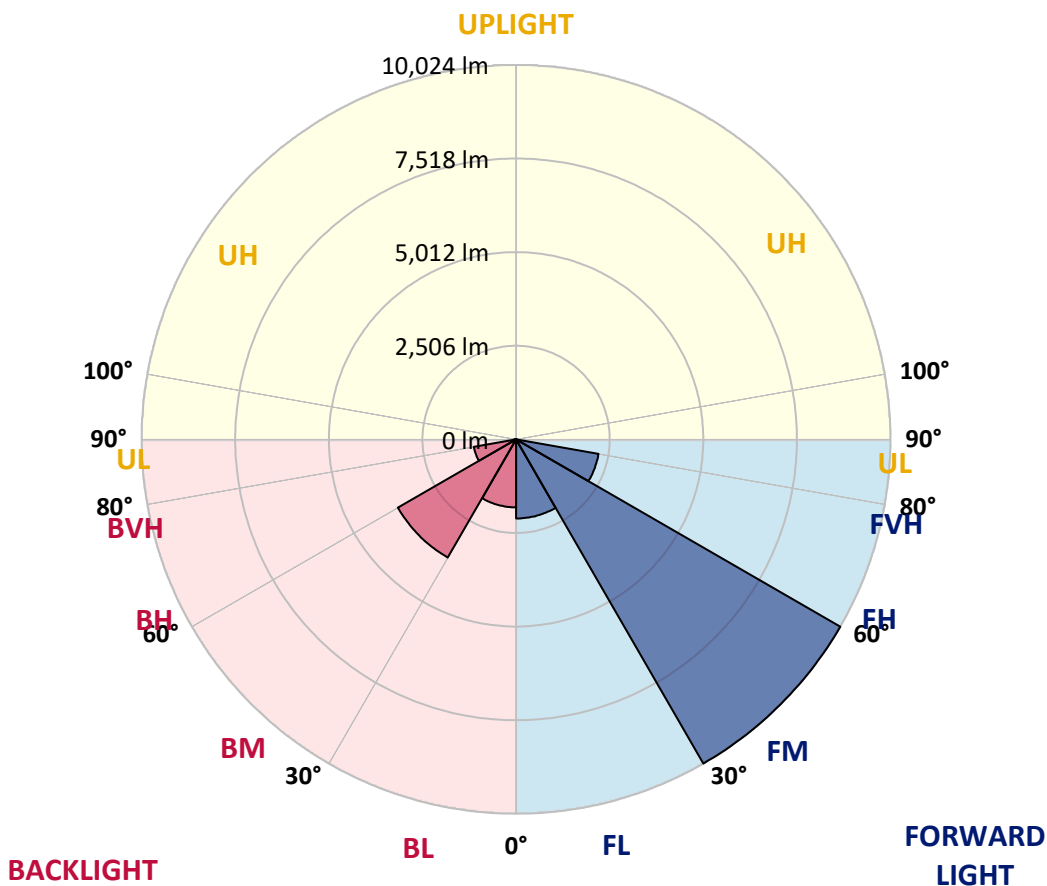
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2118.1	10.0			
FM (30°-60°)	10024.0	47.5			
FH (60°-80°)	2241.0	10.6			G2/5000
FVH (80°-90°)	30.3	0.1			G1/100
BL (0°-30°)	1820.6	8.6	B3/2500		
BM (30°-60°)	3655.4	17.3	B3/5000		
BH (60°-80°)	1147.9	5.4	B3/2500		G3/2500
BVH (80°-90°)	50.2	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°	47°	55°	65°	75°	85°
0°	3910.7	3910.7	3910.7	3910.7	3910.7	3910.7	3910.7	3910.7	3910.7	3910.7	3910.7
2.5°	3903.6	3901.8	3901.8	3912.5	3912.5	3916.0	3921.3	3926.6	3928.4	3919.5	3900.1
5°	3946.1	3946.1	3946.1	3955.0	3955.0	3958.5	3965.6	3967.4	3965.6	3951.4	3931.9
7.5°	4013.4	4013.4	4015.2	4025.8	4034.7	4040.0	4052.4	4050.6	4045.3	4022.3	3997.5
10°	4123.2	4128.5	4133.9	4146.3	4164.0	4176.4	4185.2	4185.2	4178.1	4142.7	4110.8
12.5°	4279.1	4286.2	4291.5	4302.1	4316.3	4337.5	4357.0	4357.0	4348.2	4303.9	4256.1
15°	4461.5	4468.6	4466.8	4470.4	4496.9	4527.0	4543.0	4553.6	4557.2	4495.2	4420.8
17.5°	4670.5	4677.6	4670.5	4659.9	4663.4	4711.2	4739.6	4778.5	4801.6	4718.3	4599.7
20°	4860.0	4852.9	4852.9	4860.0	4870.6	4929.1	4971.6	5035.4	5063.7	4962.7	4778.5
22.5°	5060.2	5076.1	5069.0	5069.0	5111.5	5208.9	5260.3	5343.5	5373.7	5242.6	4994.6
25°	5318.7	5332.9	5329.4	5332.9	5382.5	5520.7	5572.0	5726.1	5756.2	5568.5	5233.7
27.5°	5602.1	5625.2	5635.8	5632.2	5711.9	5892.6	5956.4	6170.7	6225.6	5933.3	5488.8
30°	5970.5	5995.3	6004.2	6000.6	6094.5	6340.7	6413.3	6657.7	6735.7	6365.5	5812.9
32.5°	6397.4	6422.2	6448.7	6459.4	6579.8	6831.3	6935.8	7189.1	7300.7	6865.0	6204.3
35°	6820.7	6841.9	6893.3	6976.5	7141.3	7398.1	7490.2	7739.9	7847.9	7383.9	6677.2
37.5°	7288.3	7302.4	7346.7	7461.8	7699.2	7943.6	8035.7	8274.8	8287.2	7885.1	7212.1
40°	7800.1	7800.1	7791.3	7904.6	8152.6	8398.8	8478.5	8616.6	8544.0	8271.2	7732.8
42.5°	8234.1	8227.0	8234.1	8340.3	8524.5	8724.7	8793.7	8767.2	8675.1	8567.0	8203.9
45°	8625.5	8630.8	8694.6	8776.0	8871.7	8990.3	9031.1	8880.5	8797.3	8804.4	8581.2
47.5°	8891.1	8896.5	9045.2	9181.6	9240.1	9277.3	9259.5	9050.6	9008.0	9087.7	8871.7
50°	8926.6	8954.9	9211.7	9491.6	9636.8	9642.1	9592.5	9337.5	9325.1	9415.4	9027.5
52.5°	8933.7	8962.0	9282.6	9787.3	10164.6	10244.3	10187.6	9922.0	9792.7	9702.3	9218.8
55°	8907.1	8939.0	9293.2	9985.7	10708.3	11027.2	11032.5	10657.0	10244.3	10184.1	9764.3
57.5°	7863.9	7876.3	8425.3	9480.9	10687.1	11590.4	11659.4	11149.4	10678.2	10621.6	10201.8
60°	5478.2	5527.7	6124.6	7518.5	8977.9	10570.2	10793.4	10644.6	10329.3	9916.6	8753.0
62.5°	2743.5	2786.0	3384.7	4702.4	6191.9	7449.4	7688.5	7846.2	7920.6	7477.8	5959.9
65°	1181.4	1213.2	1585.2	2456.6	3505.1	4112.6	4195.8	4385.4	4849.4	4326.9	3211.1
67.5°	789.9	811.2	1000.7	1498.4	2065.2	2104.1	2091.7	2132.5	2233.4	1843.8	1450.6
70°	605.7	623.4	751.0	1098.1	1484.2	1269.9	1202.6	1091.0	1184.9	1207.9	1176.0
72.5°	439.2	453.4	549.1	749.2	929.9	811.2	800.6	857.2	984.8	1020.2	1000.7
75°	283.4	290.5	348.9	410.9	480.0	520.7	542.0	644.7	774.0	800.6	777.5
77.5°	189.5	194.8	228.5	263.9	272.8	274.5	281.6	327.7	416.2	465.8	460.5
80°	99.2	99.2	111.6	111.6	127.5	152.3	159.4	189.5	230.2	255.0	256.8
82.5°	39.0	40.7	47.8	53.1	63.8	77.9	83.2	99.2	120.4	138.1	154.1
85°	15.9	17.7	19.5	23.0	28.3	35.4	37.2	42.5	56.7	70.8	79.7
87.5°	0.0	0.0	1.8	1.8	3.5	5.3	5.3	7.1	8.9	15.9	21.3
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°	3910.7	3910.7	3910.7	3910.7	3910.7	3910.7	3910.7	3910.7	3910.7	3910.7	3910.7
2.5°	3923.1	3900.1	3923.1	3930.2	3949.7	3956.7	3944.3	3942.6	3942.6	3924.9	3919.5
5°	3949.7	3928.4	3951.4	3962.1	3990.4	4008.1	4011.6	4025.8	4034.7	4027.6	4025.8
7.5°	4015.2	3988.6	4013.4	4029.4	4066.5	4094.9	4107.3	4139.2	4162.2	4158.6	4156.9
10°	4130.3	4094.9	4123.2	4149.8	4190.5	4224.2	4226.0	4243.7	4266.7	4259.6	4256.1
12.5°	4263.1	4229.5	4261.4	4287.9	4335.8	4349.9	4326.9	4319.8	4323.4	4314.5	4307.4
15°	4426.1	4378.3	4406.6	4436.7	4463.3	4447.3	4397.8	4378.3	4376.5	4364.1	4357.0
17.5°	4589.0	4528.8	4550.1	4566.0	4553.6	4504.0	4442.0	4408.4	4392.4	4367.6	4360.6
20°	4750.2	4674.1	4670.5	4658.1	4601.4	4511.1	4427.9	4360.6	4319.8	4286.2	4273.8
22.5°	4934.4	4828.1	4775.0	4718.3	4594.4	4447.3	4321.6	4226.0	4160.4	4117.9	4103.7
25°	5132.8	4982.2	4872.4	4759.1	4523.5	4311.0	4135.6	4004.6	3926.6	3880.6	3864.6
27.5°	5329.4	5122.2	4957.4	4764.4	4381.8	4114.4	3878.8	3701.7	3623.8	3586.6	3574.2
30°	5595.0	5308.1	5058.4	4695.3	4195.8	3841.6	3547.6	3368.7	3317.4	3290.8	3280.2
32.5°	5901.5	5543.7	5193.0	4550.1	3958.5	3522.8	3212.9	3088.9	3053.5	3002.1	3000.3
35°	6305.3	5880.2	5320.5	4335.8	3659.2	3181.0	2956.0	2867.5	2803.7	2722.3	2715.2
37.5°	6776.4	6300.0	5389.6	4063.0	3310.3	2899.4	2764.8	2665.6	2562.8	2454.8	2440.6
40°	7263.5	6790.6	5394.9	3740.7	2968.4	2713.4	2600.0	2470.7	2343.2	2222.8	2206.8
42.5°	7775.3	7247.5	5301.0	3368.7	2688.6	2552.2	2437.1	2274.2	2130.7	2049.2	2040.4
45°	8232.3	7615.9	5088.5	2977.3	2481.4	2417.6	2270.6	2095.3	2019.1	1960.7	1948.3
47.5°	8591.8	7860.3	4801.6	2626.6	2313.1	2279.5	2088.2	1997.9	1939.4	1886.3	1873.9
50°	8768.9	7915.2	4427.9	2341.5	2157.3	2116.5	1985.5	1916.4	1877.4	1834.9	1824.3
52.5°	8988.6	7977.2	4105.5	2102.3	2004.9	1950.0	1900.4	1845.5	1817.2	1790.6	1781.8
55°	9493.3	8211.0	3935.5	1911.1	1859.7	1834.9	1827.8	1781.8	1772.9	1755.2	1739.3
57.5°	9698.8	8060.5	3533.4	1755.2	1744.6	1748.1	1765.8	1723.3	1714.5	1693.2	1682.6
60°	7800.1	6092.7	2392.8	1620.6	1648.9	1672.0	1689.7	1647.2	1634.8	1631.2	1617.1
62.5°	4998.2	3747.7	1670.2	1494.8	1537.4	1565.7	1576.3	1535.6	1526.7	1555.1	1556.8
65°	2601.8	2042.1	1354.9	1360.2	1395.7	1438.2	1459.4	1445.3	1441.7	1471.8	1473.6
67.5°	1328.4	1248.7	1181.4	1200.8	1229.2	1284.1	1333.7	1395.7	1416.9	1420.5	1422.2
70°	1131.8	1096.3	1062.7	1075.1	1105.2	1135.3	1183.1	1213.2	1177.8	1169.0	1165.4
72.5°	963.5	936.9	921.0	935.2	951.1	945.8	931.6	945.8	951.1	952.9	954.6
75°	749.2	729.7	717.3	719.1	719.1	699.6	673.0	657.1	639.4	625.2	625.2
77.5°	458.7	462.3	474.7	472.9	471.1	464.0	437.5	423.3	380.8	368.4	368.4
80°	262.1	267.4	279.8	283.4	283.4	274.5	248.0	232.0	212.5	203.7	201.9
82.5°	159.4	166.5	173.6	177.1	178.9	168.3	145.2	132.8	122.2	113.4	113.4
85°	83.2	86.8	93.9	95.6	90.3	79.7	67.3	62.0	51.4	49.6	49.6
87.5°	23.0	24.8	28.3	23.0	21.3	15.9	8.9	7.1	3.5	1.8	1.8
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)