

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: P638497

Luminaire Tested: GWS-SA4E-830-U-T3-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638497
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-SA4E-830-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) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20749.1 lumens
Efficiency: N/A
Efficacy: 102.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

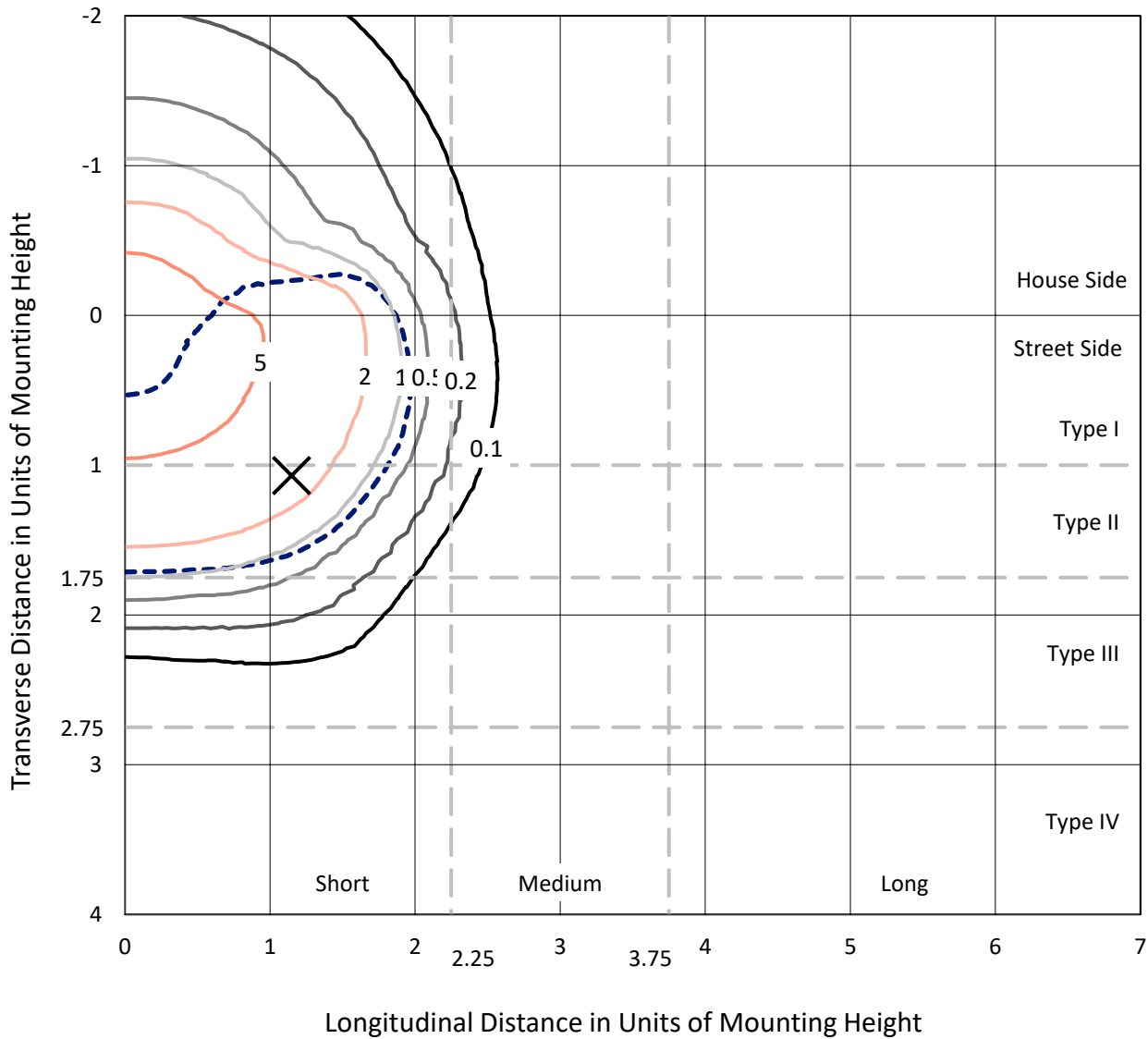
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

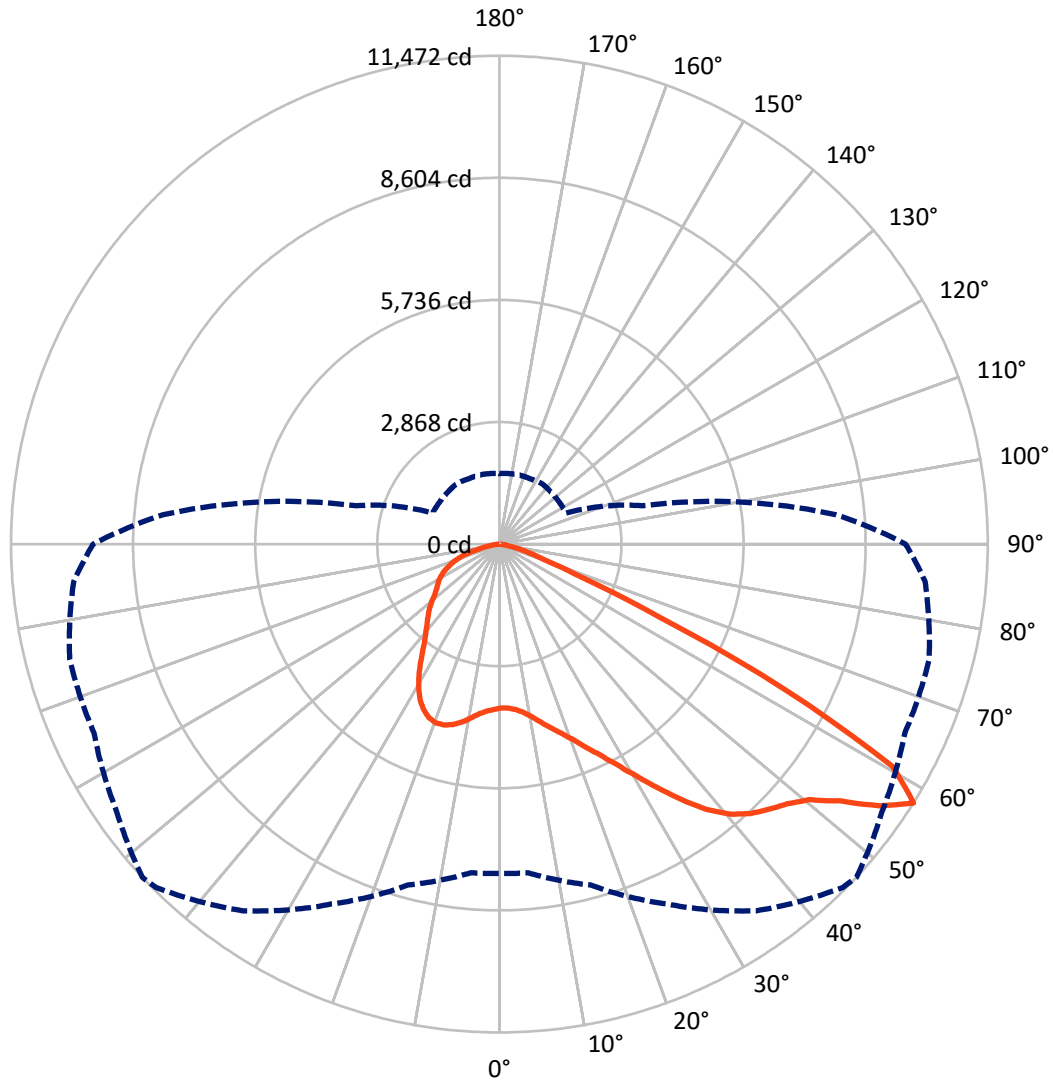
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 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	6567.0	0.0	6567.0
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	14182.1	0.0	14182.1
	% Fixture	68.4	0.0	68.4
Total	Lumens	20749.1	0.0	20749.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	379.5	1.8
10°-20°	1248.3	6.0
20°-30°	2247.7	10.8
30°-40°	3394.9	16.4
40°-50°	4571.6	22.0
50°-60°	5493.4	26.5
60°-70°	2675.4	12.9
70°-80°	659.1	3.2
80°-90°	79.2	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°	20749.1	100.0
0°-180°	20749.1	100.0

Coefficient of Utilization



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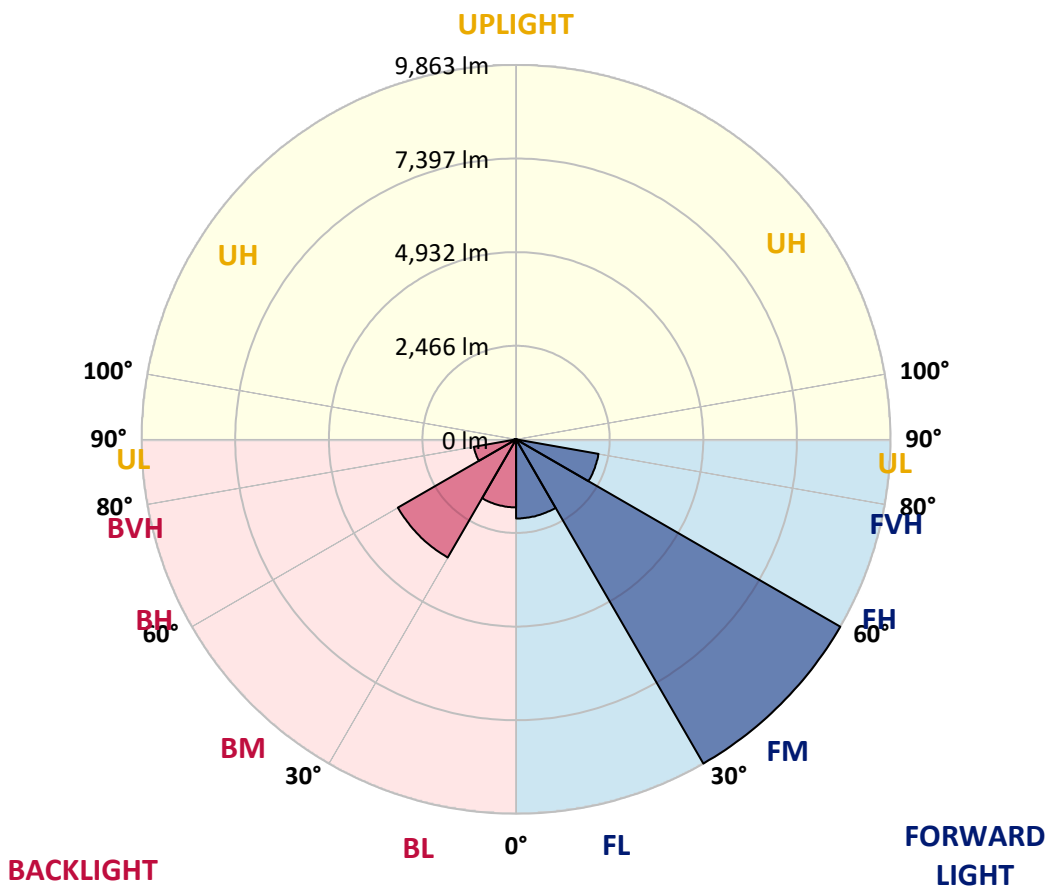
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2084.1	10.0			
FM (30°-60°)	9863.1	47.5			
FH (60°-80°)	2205.0	10.6			G2/5000
FVH (80°-90°)	29.8	0.1			G1/100
BL (0°-30°)	1791.4	8.6	B3/2500		
BM (30°-60°)	3596.7	17.3	B3/5000		
BH (60°-80°)	1129.5	5.4	B3/2500		G3/2500
BVH (80°-90°)	49.4	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°	3848.0	3848.0	3848.0	3848.0	3848.0	3848.0	3848.0	3848.0	3848.0	3848.0	3848.0
2.5°	3841.0	3839.2	3839.2	3849.7	3849.7	3853.2	3858.4	3863.6	3865.4	3856.7	3837.5
5°	3882.8	3882.8	3882.8	3891.5	3891.5	3895.0	3902.0	3903.7	3902.0	3888.0	3868.9
7.5°	3949.0	3949.0	3950.8	3961.2	3969.9	3975.2	3987.4	3985.6	3980.4	3957.7	3933.3
10°	4057.1	4062.3	4067.5	4079.7	4097.2	4109.4	4118.1	4118.1	4111.1	4076.2	4044.9
12.5°	4210.4	4217.4	4222.6	4233.1	4247.0	4267.9	4287.1	4287.1	4278.4	4234.8	4187.8
15°	4389.9	4396.9	4395.2	4398.7	4424.8	4454.4	4470.1	4480.6	4484.0	4423.1	4349.9
17.5°	4595.6	4602.6	4595.6	4585.1	4588.6	4635.7	4663.5	4701.9	4724.5	4642.6	4525.9
20°	4782.1	4775.1	4775.1	4782.1	4792.5	4850.0	4891.8	4954.6	4982.5	4883.1	4701.9
22.5°	4979.0	4994.7	4987.7	4987.7	5029.5	5125.4	5175.9	5257.8	5287.4	5158.5	4914.5
25°	5233.4	5247.4	5243.9	5247.4	5296.2	5432.1	5482.6	5634.3	5663.9	5479.1	5149.8
27.5°	5512.3	5534.9	5545.4	5541.9	5620.3	5798.1	5860.8	6071.7	6125.7	5838.1	5400.7
30°	5874.7	5899.1	5907.9	5904.4	5996.7	6239.0	6310.4	6550.9	6627.6	6263.4	5719.6
32.5°	6294.7	6319.1	6345.3	6355.7	6474.2	6721.7	6824.5	7073.7	7183.5	6754.8	6104.8
35°	6711.3	6732.2	6782.7	6864.6	7026.7	7279.4	7370.0	7615.7	7722.0	7265.4	6570.1
37.5°	7171.3	7185.3	7228.8	7342.1	7575.7	7816.1	7906.8	8142.0	8154.2	7758.6	7096.4
40°	7675.0	7675.0	7666.3	7777.8	8021.8	8264.0	8342.5	8478.4	8406.9	8138.6	7608.8
42.5°	8102.0	8095.0	8102.0	8206.5	8387.8	8584.7	8652.7	8626.5	8535.9	8429.6	8072.3
45°	8487.1	8492.3	8555.1	8635.2	8729.3	8846.1	8886.2	8738.1	8656.1	8663.1	8443.5
47.5°	8748.5	8753.7	8900.1	9034.3	9091.8	9128.4	9111.0	8905.4	8863.5	8942.0	8729.3
50°	8783.4	8811.2	9063.9	9339.3	9482.2	9487.4	9438.6	9187.7	9175.5	9264.4	8882.7
52.5°	8790.3	8818.2	9133.7	9630.3	10001.5	10080.0	10024.2	9762.8	9635.6	9546.7	9070.9
55°	8764.2	8795.6	9144.1	9825.5	10536.6	10850.2	10855.5	10486.0	10080.0	10020.7	9607.7
57.5°	7737.7	7749.9	8290.2	9328.8	10515.6	11404.4	11472.4	10970.5	10506.9	10451.2	10038.1
60°	5390.3	5439.1	6026.4	7397.9	8833.9	10400.6	10620.2	10473.8	10163.6	9757.6	8612.6
62.5°	2699.5	2741.3	3330.4	4627.0	6092.6	7329.9	7565.2	7720.3	7793.5	7357.8	5864.3
65°	1162.4	1193.8	1559.7	2417.2	3448.9	4046.6	4128.5	4315.0	4771.6	4257.5	3159.6
67.5°	777.3	798.2	984.6	1474.4	2032.0	2070.4	2058.2	2098.2	2197.6	1814.2	1427.3
70°	596.0	613.4	738.9	1080.5	1460.4	1249.5	1183.3	1073.5	1165.9	1188.5	1157.2
72.5°	432.2	446.1	540.2	737.2	914.9	798.2	787.7	843.5	969.0	1003.8	984.6
75°	278.8	285.8	343.3	404.3	472.3	512.4	533.3	634.4	761.6	787.7	765.1
77.5°	186.5	191.7	224.8	259.7	268.4	270.1	277.1	322.4	409.5	458.3	453.1
80°	97.6	97.6	109.8	109.8	125.5	149.9	156.8	186.5	226.6	251.0	252.7
82.5°	38.3	40.1	47.1	52.3	62.7	76.7	81.9	97.6	118.5	135.9	151.6
85°	15.7	17.4	19.2	22.7	27.9	34.9	36.6	41.8	55.8	69.7	78.4
87.5°	0.0	0.0	1.7	1.7	3.5	5.2	5.2	7.0	8.7	15.7	20.9
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°	3848.0	3848.0	3848.0	3848.0	3848.0	3848.0	3848.0	3848.0	3848.0	3848.0	3848.0
2.5°	3860.1	3837.5	3860.1	3867.1	3886.3	3893.3	3881.1	3879.3	3879.3	3861.9	3856.7
5°	3886.3	3865.4	3888.0	3898.5	3926.4	3943.8	3947.3	3961.2	3969.9	3963.0	3961.2
7.5°	3950.8	3924.6	3949.0	3964.7	4001.3	4029.2	4041.4	4072.8	4095.4	4091.9	4090.2
10°	4064.0	4029.2	4057.1	4083.2	4123.3	4156.4	4158.2	4175.6	4198.2	4191.3	4187.8
12.5°	4194.8	4161.6	4193.0	4219.2	4266.2	4280.1	4257.5	4250.5	4254.0	4245.3	4238.3
15°	4355.1	4308.0	4335.9	4365.5	4391.7	4376.0	4327.2	4308.0	4306.3	4294.1	4287.1
17.5°	4515.4	4456.2	4477.1	4492.8	4480.6	4431.8	4370.8	4337.7	4322.0	4297.6	4290.6
20°	4674.0	4599.1	4595.6	4583.4	4527.6	4438.7	4356.8	4290.6	4250.5	4217.4	4205.2
22.5°	4855.2	4750.7	4698.4	4642.6	4520.6	4376.0	4252.3	4158.2	4093.7	4051.9	4037.9
25°	5050.4	4902.3	4794.3	4682.7	4450.9	4241.8	4069.3	3940.3	3863.6	3818.3	3802.6
27.5°	5243.9	5040.0	4877.9	4687.9	4311.5	4048.4	3816.6	3642.3	3565.6	3529.0	3516.8
30°	5505.3	5223.0	4977.2	4620.0	4128.5	3780.0	3490.7	3314.7	3264.1	3238.0	3227.5
32.5°	5806.8	5454.7	5109.7	4477.1	3895.0	3466.3	3161.3	3039.3	3004.5	2953.9	2952.2
35°	6204.1	5785.9	5235.2	4266.2	3600.5	3129.9	2908.6	2821.5	2758.7	2678.6	2671.6
37.5°	6667.7	6198.9	5303.1	3997.8	3257.2	2852.9	2720.4	2622.8	2521.7	2415.4	2401.5
40°	7146.9	6681.6	5308.4	3680.6	2920.8	2669.9	2558.3	2431.1	2305.6	2187.1	2171.4
42.5°	7650.6	7131.3	5216.0	3314.7	2645.5	2511.3	2398.0	2237.7	2096.5	2016.3	2007.6
45°	8100.2	7493.7	5006.9	2929.5	2441.6	2378.8	2234.2	2061.7	1986.7	1929.2	1917.0
47.5°	8454.0	7734.2	4724.5	2584.5	2276.0	2242.9	2054.7	1965.8	1908.3	1856.0	1843.8
50°	8628.3	7788.3	4356.8	2303.9	2122.6	2082.6	1953.6	1885.6	1847.3	1805.5	1795.0
52.5°	8844.4	7849.3	4039.7	2068.6	1972.8	1918.7	1870.0	1815.9	1788.0	1761.9	1753.2
55°	9341.0	8079.3	3872.3	1880.4	1829.9	1805.5	1798.5	1753.2	1744.5	1727.0	1711.4
57.5°	9543.2	7931.2	3476.7	1727.0	1716.6	1720.1	1737.5	1695.7	1687.0	1666.1	1655.6
60°	7675.0	5995.0	2354.4	1594.6	1622.5	1645.1	1662.6	1620.7	1608.5	1605.1	1591.1
62.5°	4918.0	3687.6	1643.4	1470.9	1512.7	1540.6	1551.0	1510.9	1502.2	1530.1	1531.9
65°	2560.1	2009.4	1333.2	1338.4	1373.3	1415.1	1436.0	1422.1	1418.6	1448.2	1450.0
67.5°	1307.0	1228.6	1162.4	1181.6	1209.5	1263.5	1312.3	1373.3	1394.2	1397.7	1399.4
70°	1113.6	1078.8	1045.6	1057.8	1087.5	1117.1	1164.1	1193.8	1158.9	1150.2	1146.7
72.5°	948.0	921.9	906.2	920.2	935.8	930.6	916.7	930.6	935.8	937.6	939.3
75°	737.2	718.0	705.8	707.5	707.5	688.4	662.2	646.6	629.1	615.2	615.2
77.5°	451.4	454.9	467.1	465.3	463.6	456.6	430.5	416.5	374.7	362.5	362.5
80°	257.9	263.2	275.4	278.8	278.8	270.1	244.0	228.3	209.1	200.4	198.7
82.5°	156.8	163.8	170.8	174.3	176.0	165.6	142.9	130.7	120.2	111.5	111.5
85°	81.9	85.4	92.4	94.1	88.9	78.4	66.2	61.0	50.5	48.8	48.8
87.5°	22.7	24.4	27.9	22.7	20.9	15.7	8.7	7.0	3.5	1.7	1.7
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)