

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: P637727

Luminaire Tested: GWS-SA4D-735-U-T3-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637727
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-735-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) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20615 lumens
Efficiency: N/A
Efficacy: 127.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

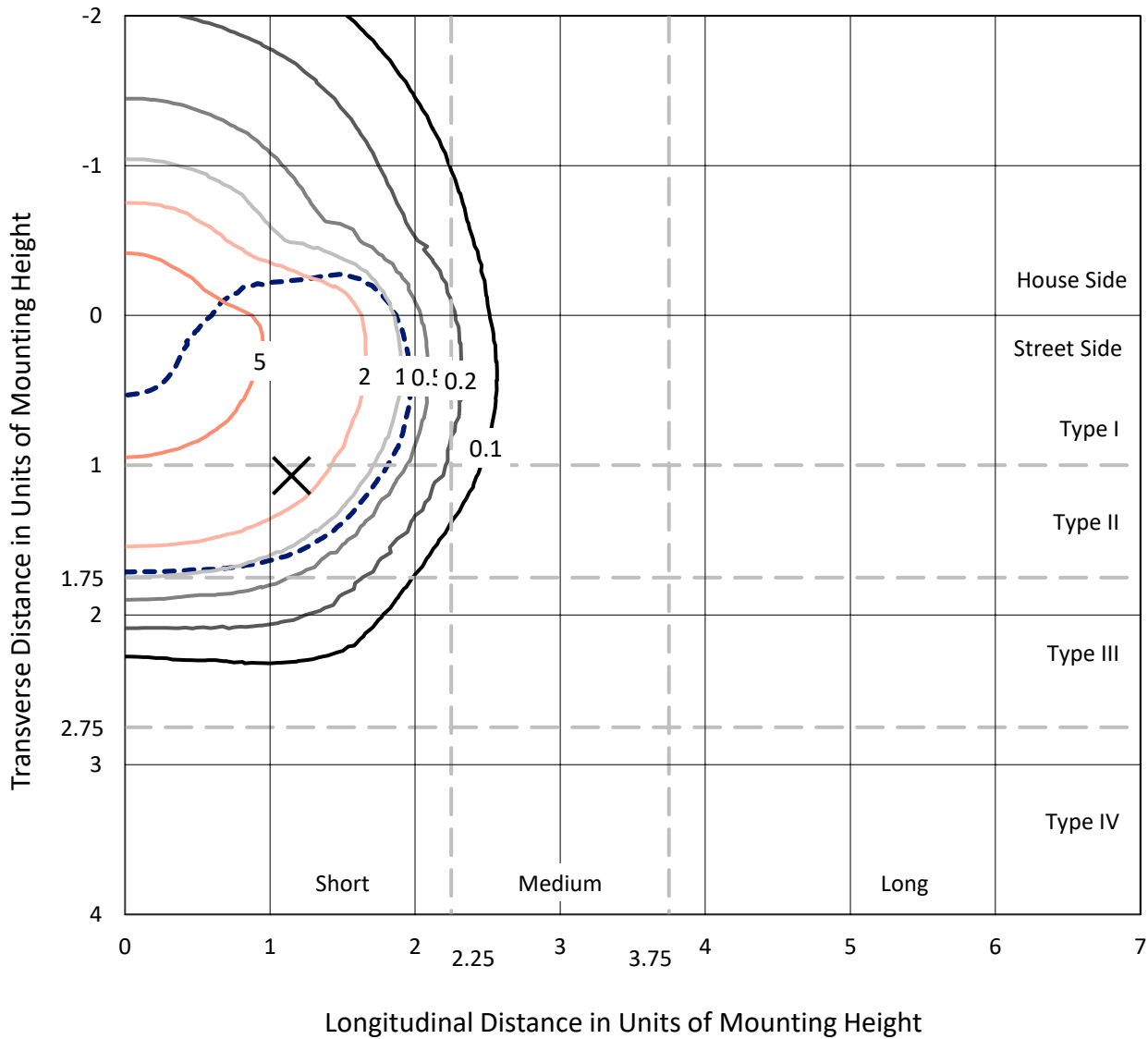
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

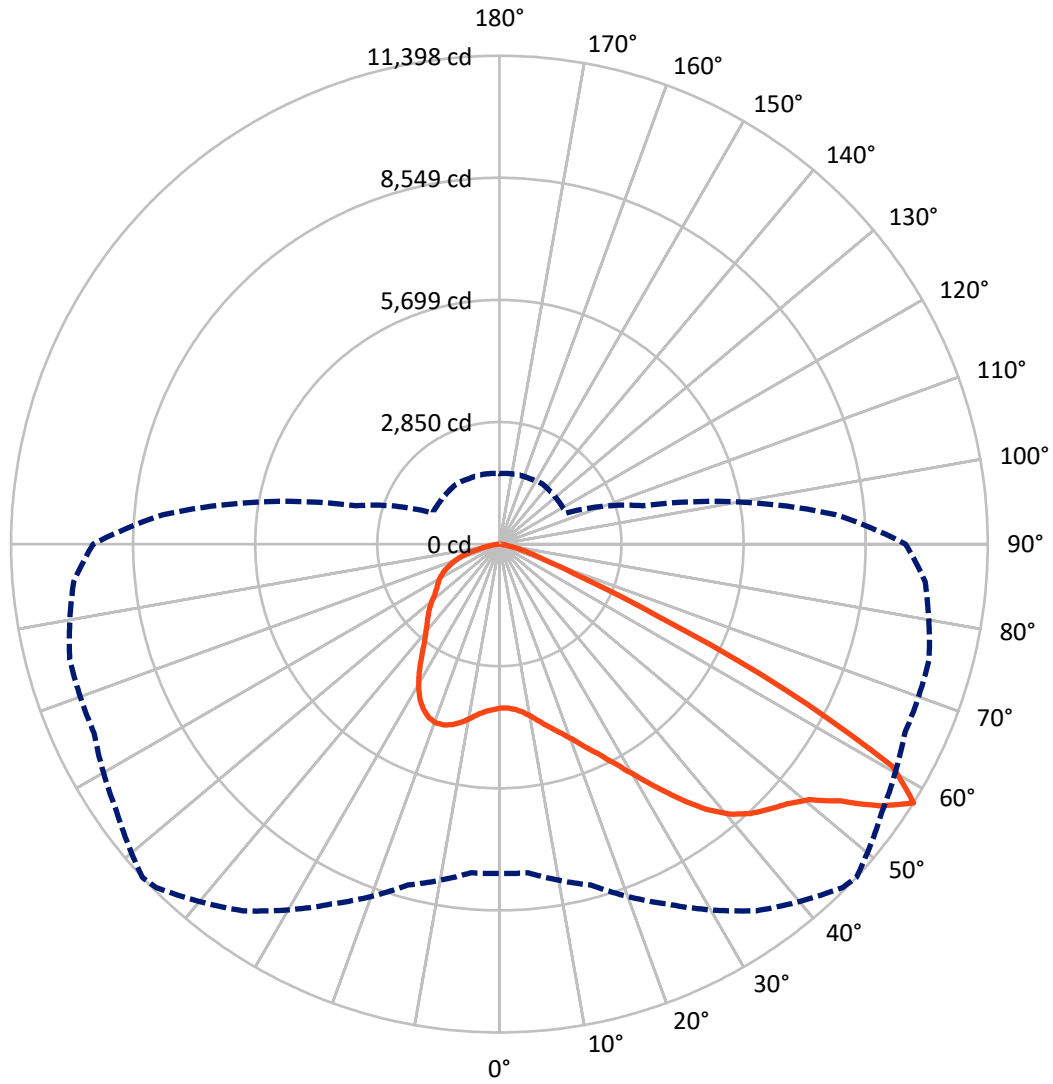
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 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	6524.6	0.0	6524.6
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	14090.4	0.0	14090.4
	% Fixture	68.4	0.0	68.4
Total	Lumens	20615.0	0.0	20615.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	377.1	1.8
10°-20°	1240.2	6.0
20°-30°	2233.2	10.8
30°-40°	3372.9	16.4
40°-50°	4542.1	22.0
50°-60°	5457.9	26.5
60°-70°	2658.1	12.9
70°-80°	654.9	3.2
80°-90°	78.7	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°	20615.0	100.0
0°-180°	20615.0	100.0

Coefficient of Utilization



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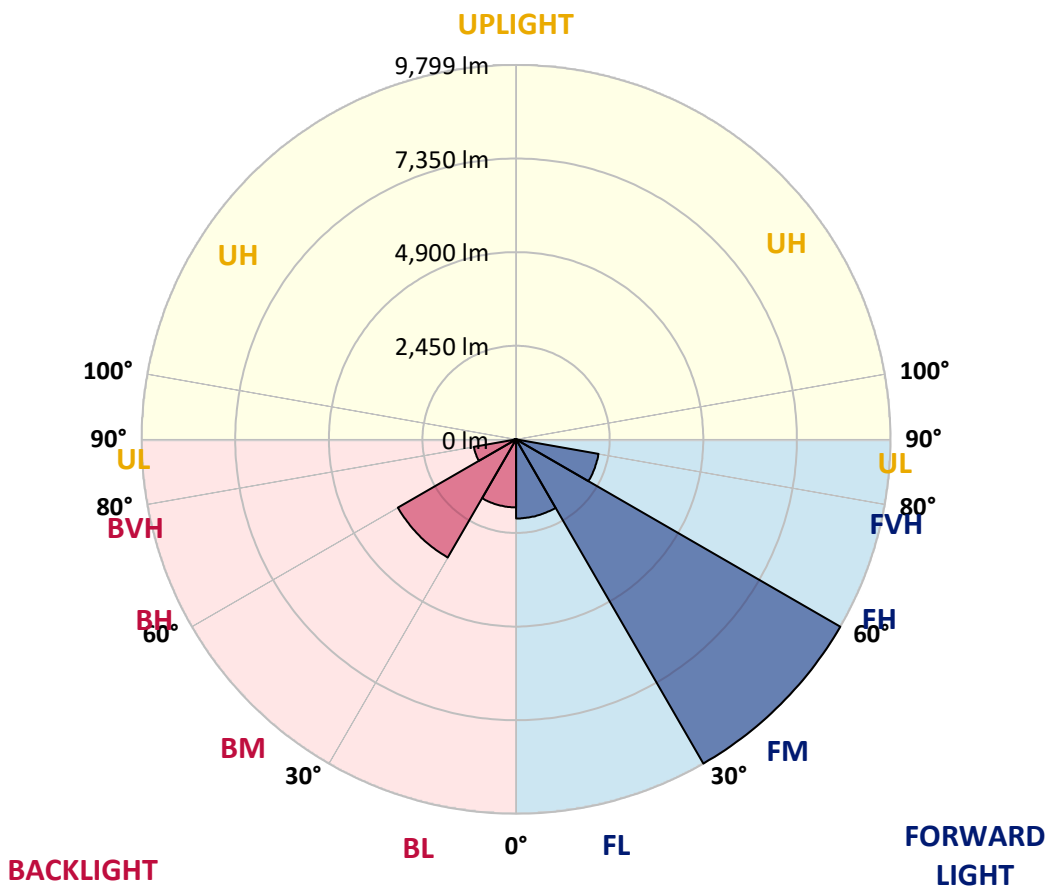
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2070.7	10.0			
FM (30°-60°)	9799.4	47.5			
FH (60°-80°)	2190.8	10.6			G2/5000
FVH (80°-90°)	29.6	0.1			G1/100
BL (0°-30°)	1779.8	8.6	B3/2500		
BM (30°-60°)	3573.5	17.3	B3/5000		
BH (60°-80°)	1122.2	5.4	B3/2500		G3/2500
BVH (80°-90°)	49.1	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°	3823.1	3823.1	3823.1	3823.1	3823.1	3823.1	3823.1	3823.1	3823.1	3823.1	3823.1
2.5°	3816.2	3814.4	3814.4	3824.8	3824.8	3828.3	3833.5	3838.7	3840.4	3831.7	3812.7
5°	3857.7	3857.7	3857.7	3866.4	3866.4	3869.8	3876.8	3878.5	3876.8	3862.9	3843.9
7.5°	3923.5	3923.5	3925.2	3935.6	3944.3	3949.5	3961.6	3959.9	3954.7	3932.2	3907.9
10°	4030.9	4036.1	4041.2	4053.4	4070.7	4082.8	4091.5	4091.5	4084.5	4049.9	4018.7
12.5°	4183.2	4190.2	4195.3	4205.7	4219.6	4240.4	4259.4	4259.4	4250.8	4207.5	4160.7
15°	4361.6	4368.5	4366.8	4370.2	4396.2	4425.6	4441.2	4451.6	4455.1	4394.5	4321.7
17.5°	4565.9	4572.8	4565.9	4555.5	4559.0	4605.7	4633.4	4671.5	4694.0	4612.6	4496.6
20°	4751.1	4744.2	4744.2	4751.1	4761.5	4818.7	4860.2	4922.6	4950.3	4851.6	4671.5
22.5°	4946.8	4962.4	4955.5	4955.5	4997.0	5092.2	5142.5	5223.8	5253.3	5125.1	4882.7
25°	5199.6	5213.5	5210.0	5213.5	5261.9	5397.0	5447.2	5597.8	5627.3	5443.7	5116.5
27.5°	5476.6	5499.1	5509.5	5506.1	5584.0	5760.6	5822.9	6032.4	6086.1	5800.4	5365.8
30°	5836.8	5861.0	5869.7	5866.2	5958.0	6198.7	6269.6	6508.6	6584.8	6222.9	5682.7
32.5°	6254.1	6278.3	6304.3	6314.7	6432.4	6678.3	6780.4	7028.0	7137.1	6711.2	6065.3
35°	6667.9	6688.7	6738.9	6820.3	6981.3	7232.3	7322.4	7566.5	7672.1	7218.5	6527.6
37.5°	7125.0	7138.8	7182.1	7294.7	7526.7	7765.6	7855.7	8089.4	8101.5	7708.5	7050.5
40°	7625.4	7625.4	7616.7	7727.5	7969.9	8210.6	8288.5	8423.6	8352.6	8086.0	7559.6
42.5°	8049.6	8042.7	8049.6	8153.5	8333.6	8529.2	8596.7	8570.8	8480.7	8375.1	8020.2
45°	8432.2	8437.4	8499.8	8579.4	8672.9	8788.9	8828.8	8681.6	8600.2	8607.1	8389.0
47.5°	8692.0	8697.2	8842.6	8975.9	9033.1	9069.4	9052.1	8847.8	8806.2	8884.2	8672.9
50°	8726.6	8754.3	9005.4	9278.9	9420.9	9426.1	9377.6	9128.3	9116.2	9204.5	8825.3
52.5°	8733.5	8761.2	9074.6	9568.1	9936.9	10014.8	9959.4	9699.7	9573.3	9485.0	9012.3
55°	8707.6	8738.7	9085.0	9762.0	10468.5	10780.1	10785.3	10418.2	10014.8	9955.9	9545.6
57.5°	7687.7	7699.8	8236.6	9268.5	10447.7	11330.7	11398.3	10899.6	10439.0	10383.6	9973.3
60°	5355.4	5403.9	5987.4	7350.1	8776.8	10333.4	10551.6	10406.1	10097.9	9694.5	8556.9
62.5°	2682.0	2723.6	3308.8	4597.0	6053.2	7282.6	7516.3	7670.4	7743.1	7310.3	5826.4
65°	1154.9	1186.1	1549.7	2401.5	3426.6	4020.5	4101.8	4287.1	4740.8	4230.0	3139.2
67.5°	772.2	793.0	978.3	1464.8	2018.9	2057.0	2044.9	2084.7	2183.4	1802.5	1418.1
70°	592.2	609.5	734.1	1073.5	1451.0	1241.5	1175.7	1066.6	1158.4	1180.9	1149.7
72.5°	429.4	443.3	536.8	732.4	909.0	793.0	782.6	838.0	962.7	997.3	978.3
75°	277.0	284.0	341.1	401.7	469.2	509.1	529.8	630.3	756.7	782.6	760.1
77.5°	185.3	190.5	223.4	258.0	266.6	268.4	275.3	320.3	406.9	455.4	450.2
80°	97.0	97.0	109.1	109.1	124.7	148.9	155.8	185.3	225.1	249.3	251.1
82.5°	38.1	39.8	46.7	51.9	62.3	76.2	81.4	97.0	117.7	135.1	150.6
85°	15.6	17.3	19.0	22.5	27.7	34.6	36.4	41.6	55.4	69.3	77.9
87.5°	0.0	0.0	1.7	1.7	3.5	5.2	5.2	6.9	8.7	15.6	20.8
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°	3823.1	3823.1	3823.1	3823.1	3823.1	3823.1	3823.1	3823.1	3823.1	3823.1	3823.1
2.5°	3835.2	3812.7	3835.2	3842.1	3861.2	3868.1	3856.0	3854.2	3854.2	3836.9	3831.7
5°	3861.2	3840.4	3862.9	3873.3	3901.0	3918.3	3921.8	3935.6	3944.3	3937.4	3935.6
7.5°	3925.2	3899.3	3923.5	3939.1	3975.5	4003.2	4015.3	4046.4	4068.9	4065.5	4063.8
10°	4037.8	4003.2	4030.9	4056.8	4096.7	4129.6	4131.3	4148.6	4171.1	4164.2	4160.7
12.5°	4167.6	4134.7	4165.9	4191.9	4238.6	4252.5	4230.0	4223.1	4226.5	4217.9	4210.9
15°	4326.9	4280.2	4307.9	4337.3	4363.3	4347.7	4299.2	4280.2	4278.5	4266.3	4259.4
17.5°	4486.2	4427.4	4448.1	4463.7	4451.6	4403.1	4342.5	4309.6	4294.0	4269.8	4262.9
20°	4643.8	4569.3	4565.9	4553.8	4498.4	4410.0	4328.7	4262.9	4223.1	4190.2	4178.0
22.5°	4823.9	4720.0	4668.0	4612.6	4491.4	4347.7	4224.8	4131.3	4067.2	4025.7	4011.8
25°	5017.8	4870.6	4763.3	4652.5	4422.2	4214.4	4043.0	3914.8	3838.7	3793.6	3778.1
27.5°	5210.0	5007.4	4846.4	4657.6	4283.7	4022.2	3791.9	3618.8	3542.6	3506.2	3494.1
30°	5469.7	5189.2	4945.1	4590.1	4101.8	3755.6	3468.1	3293.3	3243.0	3217.1	3206.7
32.5°	5769.3	5419.5	5076.7	4448.1	3869.8	3443.9	3140.9	3019.7	2985.1	2934.8	2933.1
35°	6164.0	5748.5	5201.3	4238.6	3577.2	3109.7	2889.8	2803.2	2740.9	2661.3	2654.3
37.5°	6624.6	6158.8	5268.9	3972.0	3236.1	2834.4	2702.8	2605.9	2505.4	2399.8	2386.0
40°	7100.8	6638.4	5274.1	3656.9	2901.9	2652.6	2541.8	2415.4	2290.7	2173.0	2157.4
42.5°	7601.1	7085.2	5182.3	3293.3	2628.4	2495.0	2382.5	2223.2	2083.0	2003.3	1994.7
45°	8047.9	7445.3	4974.5	2910.6	2425.8	2363.5	2219.7	2048.3	1973.9	1916.7	1904.6
47.5°	8399.4	7684.3	4694.0	2567.8	2261.3	2228.4	2041.4	1953.1	1896.0	1844.0	1831.9
50°	8572.5	7737.9	4328.7	2289.0	2108.9	2069.1	1941.0	1873.4	1835.4	1793.8	1783.4
52.5°	8787.2	7798.5	4013.5	2055.3	1960.0	1906.3	1857.9	1804.2	1776.5	1750.5	1741.9
55°	9280.7	8027.1	3847.3	1868.3	1818.0	1793.8	1786.9	1741.9	1733.2	1715.9	1700.3
57.5°	9481.5	7879.9	3454.3	1715.9	1705.5	1709.0	1726.3	1684.7	1676.1	1655.3	1644.9
60°	7625.4	5956.3	2339.2	1584.3	1612.0	1634.5	1651.8	1610.3	1598.1	1594.7	1580.8
62.5°	4886.2	3663.8	1632.8	1461.4	1502.9	1530.6	1541.0	1501.2	1492.5	1520.2	1522.0
65°	2543.5	1996.4	1324.6	1329.8	1364.4	1406.0	1426.7	1412.9	1409.4	1438.8	1440.6
67.5°	1298.6	1220.7	1154.9	1173.9	1201.6	1255.3	1303.8	1364.4	1385.2	1388.6	1390.4
70°	1106.4	1071.8	1038.9	1051.0	1080.4	1109.9	1156.6	1186.1	1151.4	1142.8	1139.3
72.5°	941.9	915.9	900.4	914.2	929.8	924.6	910.8	924.6	929.8	931.5	933.3
75°	732.4	713.4	701.2	703.0	703.0	683.9	658.0	642.4	625.1	611.2	611.2
77.5°	448.5	451.9	464.0	462.3	460.6	453.6	427.7	413.8	372.3	360.1	360.1
80°	256.3	261.5	273.6	277.0	277.0	268.4	242.4	226.8	207.8	199.1	197.4
82.5°	155.8	162.8	169.7	173.1	174.9	164.5	142.0	129.9	119.5	110.8	110.8
85°	81.4	84.8	91.8	93.5	88.3	77.9	65.8	60.6	50.2	48.5	48.5
87.5°	22.5	24.2	27.7	22.5	20.8	15.6	8.7	6.9	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)