

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: P642427

Luminaire Tested: GWS-SA6C-830-U-RW-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P642427
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-51)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA6C-830-U-RW-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE 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: 19884.3 lumens
Efficiency: N/A
Efficacy: 105.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

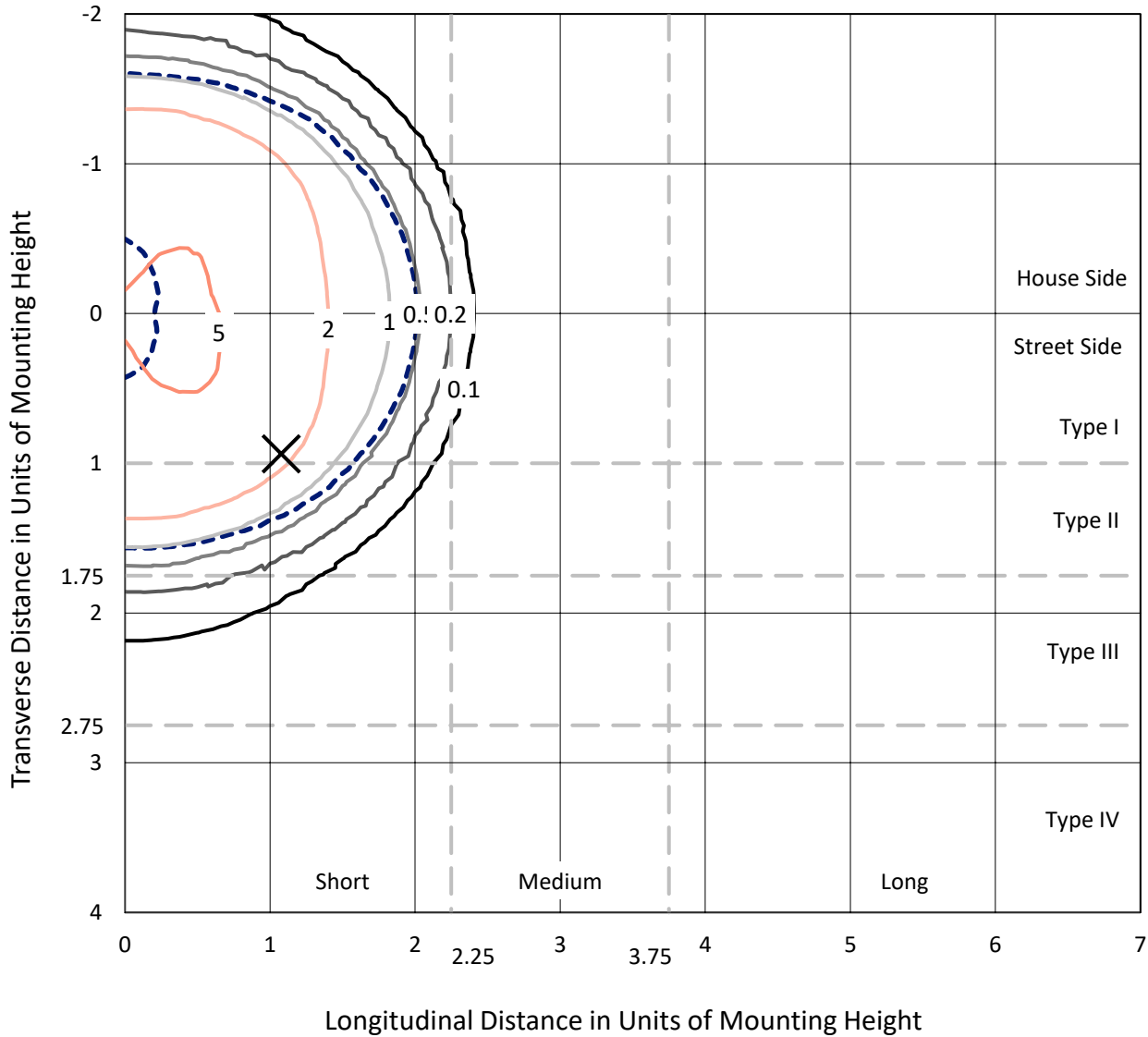
Input Watts (W): 189.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

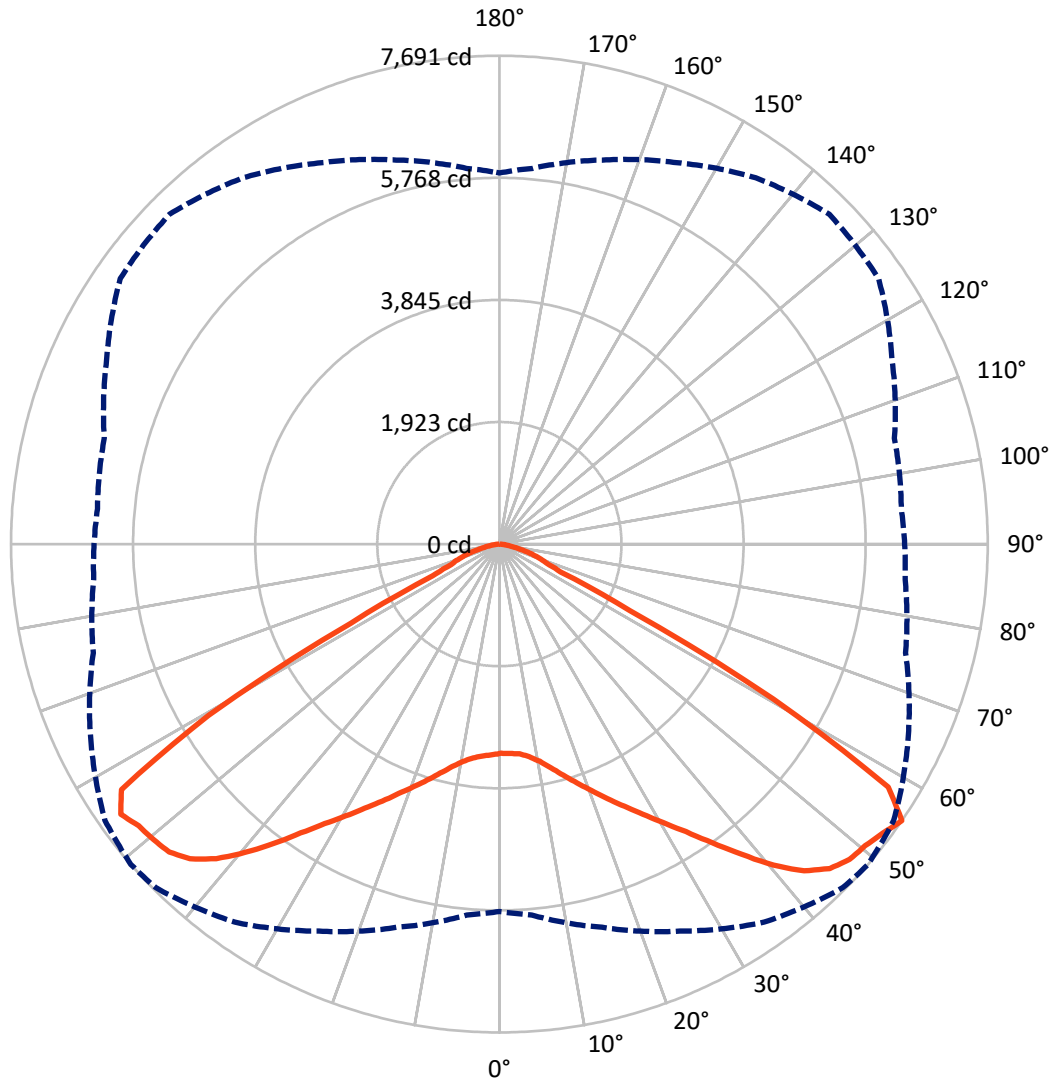
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 49-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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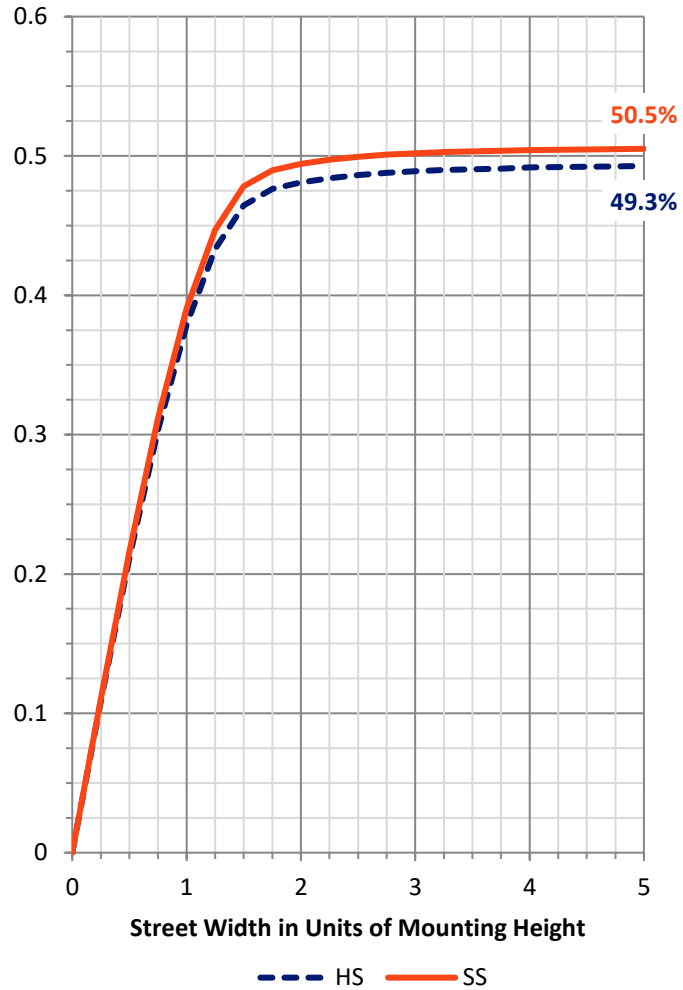
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9844.6	0.0	9844.6
	% Fixture	49.5	0.0	49.5
Street Side	Lumens	10039.7	0.0	10039.7
	% Fixture	50.5	0.0	50.5
Total	Lumens	19884.3	0.0	19884.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	321.3	1.6
10°-20°	1059.9	5.3
20°-30°	2018.8	10.2
30°-40°	3422.2	17.2
40°-50°	5150.2	25.9
50°-60°	5637.4	28.4
60°-70°	1782.6	9.0
70°-80°	427.8	2.2
80°-90°	64.2	0.3
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°	19884.3	100.0
0°-180°	19884.3	100.0

Coefficient of Utilization



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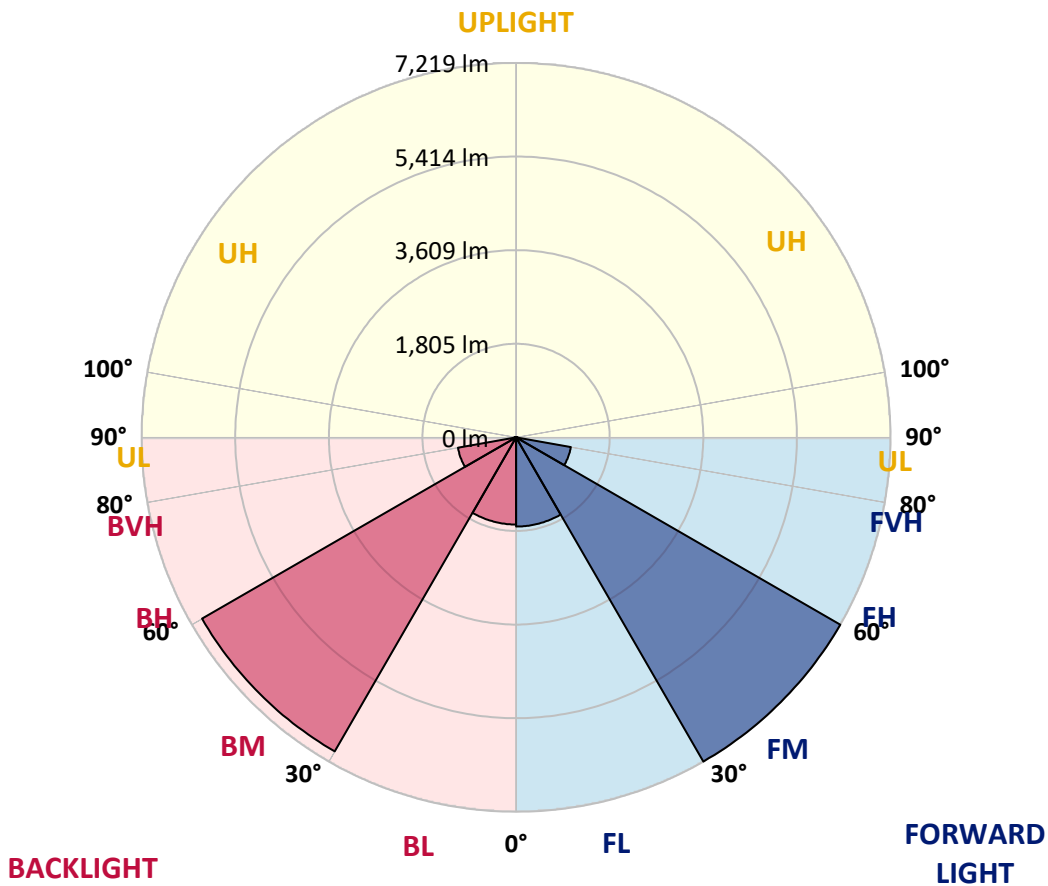
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1719.2	8.6			
FM (30°-60°)	7218.6	36.3			
FH (60°-80°)	1072.2	5.4			G1/1800
FVH (80°-90°)	29.7	0.1			G1/100
BL (0°-30°)	1680.8	8.5	B3/2500		
BM (30°-60°)	6991.2	35.2	B4/8500		
BH (60°-80°)	1138.1	5.7	B3/2500		G1/1800
BVH (80°-90°)	34.5	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	49°	55°	65°	75°	85°
0°	3294.0	3294.0	3294.0	3294.0	3294.0	3294.0	3294.0	3294.0	3294.0	3294.0	3294.0
2.5°	3245.4	3248.7	3255.1	3266.5	3277.8	3294.0	3300.4	3308.5	3306.9	3316.6	3316.6
5°	3229.3	3234.1	3243.8	3260.0	3279.4	3310.1	3318.2	3337.6	3357.0	3381.3	3389.4
7.5°	3248.7	3255.1	3266.5	3292.3	3321.4	3361.9	3378.0	3410.4	3447.6	3491.2	3509.0
10°	3285.9	3294.0	3313.4	3355.4	3402.3	3463.7	3478.3	3518.7	3578.6	3638.4	3674.0
12.5°	3327.9	3340.8	3376.4	3442.7	3512.3	3593.1	3615.8	3665.9	3730.6	3808.2	3856.7
15°	3376.4	3387.7	3442.7	3536.5	3644.9	3751.6	3777.5	3826.0	3898.7	3974.7	4042.7
17.5°	3478.3	3497.7	3562.4	3670.7	3796.9	3923.0	3952.1	4007.1	4065.3	4125.1	4189.8
20°	3617.4	3633.5	3716.0	3850.2	3999.0	4113.8	4142.9	4191.4	4218.9	4249.6	4304.6
22.5°	3756.4	3779.1	3872.9	4031.3	4206.0	4330.5	4353.1	4398.4	4379.0	4369.3	4404.9
25°	3929.5	3960.2	4052.4	4225.4	4403.3	4556.9	4574.7	4613.5	4581.1	4531.0	4529.4
27.5°	4144.5	4172.0	4267.4	4445.3	4621.6	4781.7	4815.6	4867.4	4796.2	4734.8	4691.1
30°	4400.0	4417.8	4522.9	4712.1	4893.2	5045.2	5088.9	5140.6	5087.3	4985.4	4941.7
32.5°	4697.6	4721.8	4843.1	5042.0	5203.7	5355.7	5399.4	5464.1	5405.8	5291.0	5236.0
35°	5054.9	5079.2	5206.9	5423.6	5588.6	5745.4	5776.1	5829.5	5756.7	5624.1	5580.5
37.5°	5443.0	5473.8	5635.5	5840.8	6013.9	6196.6	6198.2	6214.4	6110.9	5945.9	5897.4
40°	5879.6	5920.1	6081.8	6295.2	6503.8	6652.6	6651.0	6605.7	6431.1	6175.6	6101.2
42.5°	6311.4	6343.7	6507.1	6727.0	6935.6	7076.3	7034.2	6924.3	6672.0	6324.3	6225.7
45°	6623.5	6647.7	6819.1	7066.6	7278.4	7365.7	7289.7	7157.1	6815.9	6418.1	6272.6
47.5°	6770.6	6803.0	6976.0	7221.8	7461.1	7511.3	7420.7	7296.2	6900.0	6505.4	6309.8
50°	6691.4	6733.4	6929.1	7157.1	7427.2	7530.7	7466.0	7341.5	6988.9	6591.1	6376.1
52.5°	6486.0	6526.5	6773.9	7050.4	7356.0	7561.4	7559.8	7457.9	7090.8	6615.4	6379.3
55°	5784.2	5863.5	6248.3	6725.4	7268.7	7651.9	7690.7	7582.4	7107.0	6621.9	6413.3
57.5°	3764.5	3903.6	4269.0	4890.0	5979.9	6959.8	7221.8	7247.7	6990.6	6594.4	6419.7
60°	1571.8	1683.4	1972.8	2385.2	3285.9	4451.8	4959.5	5468.9	6083.4	6306.5	6359.9
62.5°	976.7	986.4	1015.5	1109.3	1410.1	1979.3	2305.9	2783.0	3696.6	4474.4	4833.4
65°	881.3	886.1	892.6	886.1	900.7	970.2	1057.6	1224.1	1596.0	1982.5	2441.8
67.5°	776.2	782.7	787.5	782.7	787.5	790.7	800.4	815.0	882.9	937.9	979.9
70°	627.4	637.1	645.2	642.0	661.4	661.4	671.1	682.4	716.4	756.8	785.9
72.5°	478.7	470.6	480.3	483.5	501.3	511.0	525.5	538.5	577.3	601.5	638.7
75°	310.5	302.4	316.9	325.0	349.3	362.2	375.2	388.1	415.6	431.8	467.3
77.5°	168.2	166.6	181.1	192.4	218.3	234.5	244.2	253.9	276.5	281.4	304.0
80°	97.0	97.0	106.7	114.8	131.0	148.8	158.5	166.6	182.7	187.6	197.3
82.5°	53.4	53.4	58.2	63.1	76.0	85.7	93.8	100.3	114.8	119.7	124.5
85°	25.9	24.3	27.5	30.7	35.6	40.4	45.3	48.5	59.8	63.1	69.5
87.5°	3.2	3.2	3.2	4.9	6.5	9.7	11.3	11.3	17.8	21.0	24.3
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°	3294.0	3294.0	3294.0	3294.0	3294.0	3294.0	3294.0	3294.0	3294.0	3294.0	3294.0
2.5°	3326.3	3305.3	3318.2	3323.1	3323.1	3318.2	3297.2	3290.7	3281.0	3266.5	3266.5
5°	3400.7	3384.5	3387.7	3379.7	3360.3	3336.0	3297.2	3277.8	3261.6	3243.8	3242.2
7.5°	3528.4	3507.4	3504.2	3473.4	3421.7	3370.0	3311.7	3276.2	3251.9	3229.3	3227.7
10°	3695.0	3675.6	3651.3	3589.9	3513.9	3437.9	3358.6	3310.1	3274.6	3242.2	3240.6
12.5°	3880.9	3858.3	3813.0	3722.5	3627.1	3552.7	3462.1	3387.7	3334.4	3290.7	3282.6
15°	4083.1	4050.7	3973.1	3866.4	3772.6	3693.4	3596.3	3489.6	3408.8	3339.2	3331.1
17.5°	4238.3	4196.3	4112.2	4011.9	3934.3	3855.1	3728.9	3594.7	3478.3	3391.0	3378.0
20°	4345.0	4311.1	4215.7	4141.3	4096.0	4026.5	3879.3	3727.3	3596.3	3486.4	3479.9
22.5°	4443.7	4403.3	4309.5	4265.8	4265.8	4218.9	4078.2	3898.7	3745.1	3617.4	3601.2
25°	4555.3	4511.6	4440.5	4435.6	4458.2	4437.2	4267.4	4075.0	3895.5	3751.6	3725.7
27.5°	4710.5	4662.0	4619.9	4649.1	4681.4	4658.8	4469.6	4246.4	4057.2	3911.7	3889.0
30°	4957.9	4898.1	4859.3	4894.8	4957.9	4891.6	4686.2	4450.2	4259.3	4099.3	4087.9
32.5°	5245.7	5177.8	5137.4	5194.0	5250.6	5147.1	4943.4	4717.0	4516.5	4348.3	4328.9
35°	5591.8	5506.1	5446.3	5522.3	5580.5	5478.6	5276.5	5061.4	4838.2	4663.6	4637.7
37.5°	5899.0	5795.5	5755.1	5861.8	5939.5	5873.2	5653.2	5451.1	5206.9	5016.1	5004.8
40°	6122.2	6020.3	5991.2	6167.5	6303.3	6287.1	6089.9	5858.6	5629.0	5409.1	5388.0
42.5°	6219.2	6148.1	6154.5	6392.2	6602.5	6706.0	6529.7	6282.3	6060.7	5832.7	5818.2
45°	6240.2	6196.6	6248.3	6545.9	6822.4	7034.2	6883.8	6676.8	6426.2	6206.3	6199.8
47.5°	6262.9	6238.6	6317.9	6633.2	6961.5	7207.2	7123.2	6909.7	6655.8	6440.8	6424.6
50°	6316.2	6306.5	6395.5	6694.6	7027.8	7254.1	7158.7	6946.9	6686.6	6474.7	6435.9
52.5°	6332.4	6316.2	6444.0	6790.0	7137.7	7252.5	7047.2	6770.6	6508.7	6272.6	6232.2
55°	6382.5	6353.4	6440.8	6825.6	7289.7	7346.3	7040.7	6626.7	6261.3	5939.5	5844.1
57.5°	6395.5	6363.1	6419.7	6767.4	7124.8	7074.6	6188.5	5347.6	4658.8	4301.4	4341.8
60°	6325.9	6335.6	6238.6	6199.8	5714.7	5045.2	3788.8	3028.8	2378.7	2103.8	2163.6
62.5°	4815.6	4856.0	4524.5	3934.3	3025.5	2398.1	1586.3	1232.2	1043.0	994.5	1002.6
65°	2430.4	2485.4	2141.0	1770.7	1316.3	1064.0	920.1	891.0	881.3	870.0	870.0
67.5°	962.2	978.3	965.4	903.9	840.9	818.2	811.8	808.5	797.2	790.7	792.4
70°	773.0	785.9	766.5	727.7	701.8	700.2	697.0	690.5	682.4	682.4	687.3
72.5°	630.7	643.6	616.1	591.8	572.4	557.9	549.8	544.9	533.6	533.6	538.5
75°	464.1	472.2	449.5	446.3	425.3	410.7	397.8	391.3	376.8	370.3	375.2
77.5°	308.9	307.2	295.9	295.9	287.8	270.0	255.5	240.9	221.5	208.6	211.8
80°	200.5	200.5	195.7	195.7	187.6	173.0	155.2	140.7	129.4	119.7	119.7
82.5°	127.7	126.1	124.5	122.9	119.7	105.1	92.2	82.5	74.4	67.9	69.5
85°	71.2	71.2	67.9	67.9	61.4	53.4	46.9	40.4	35.6	34.0	34.0
87.5°	24.3	24.3	22.6	22.6	19.4	14.6	11.3	9.7	8.1	6.5	8.1
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)