

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: P637211

Luminaire Tested: GWS-SA4C-735-U-SL3-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637211
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-31)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4C-735-U-SL3-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18759.2 lumens
Efficiency: N/A
Efficacy: 146.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

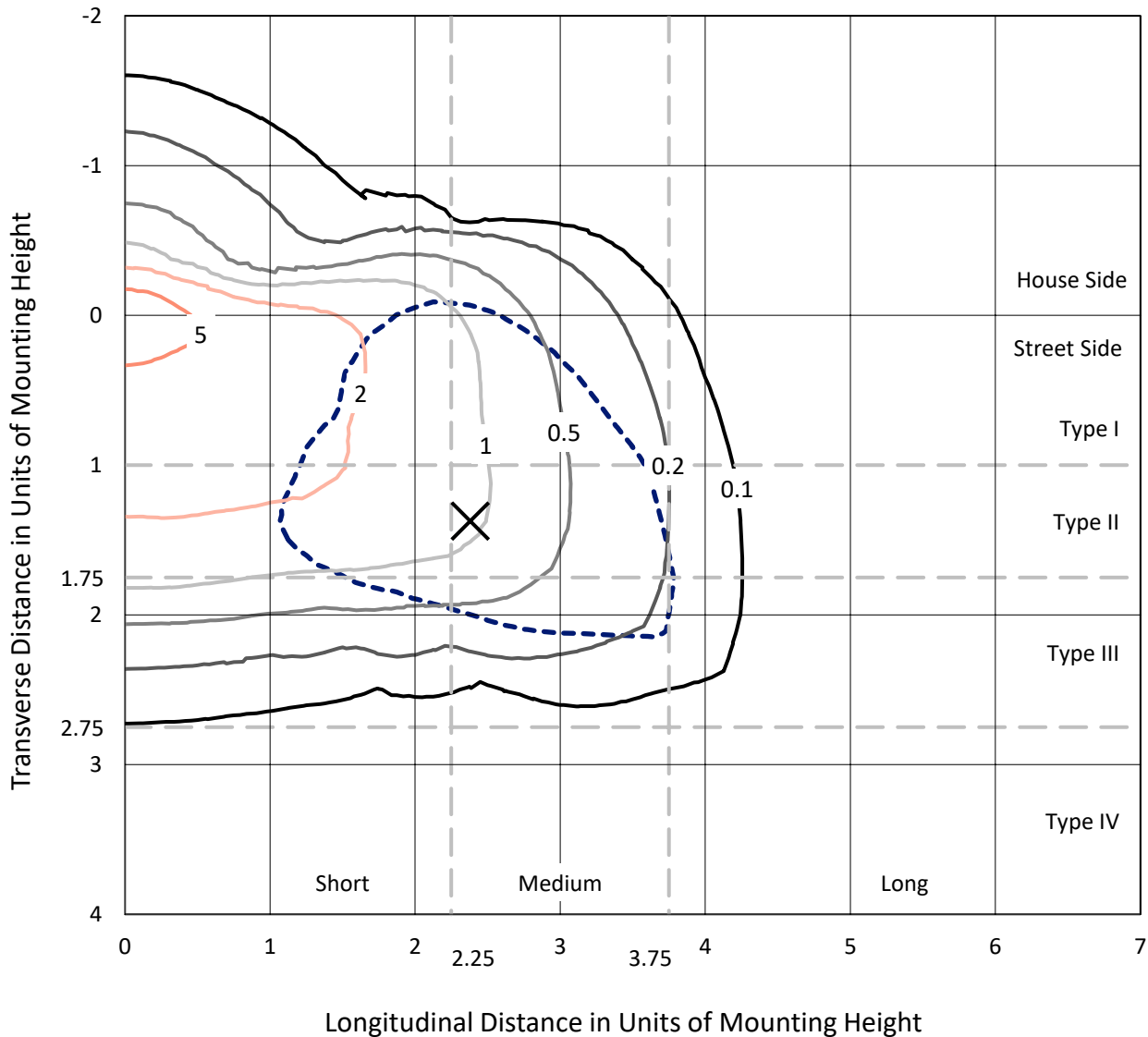
Input Watts (W): 128.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

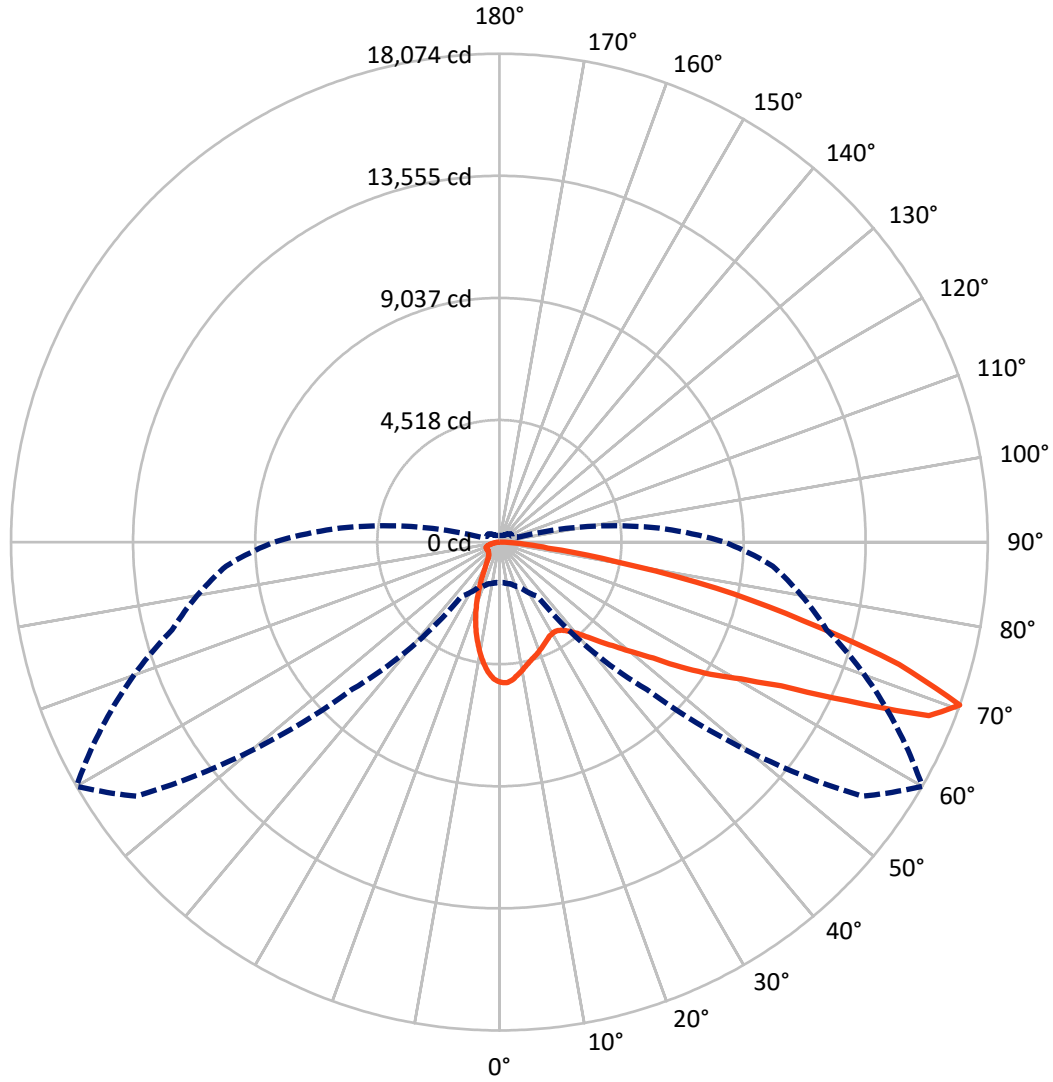
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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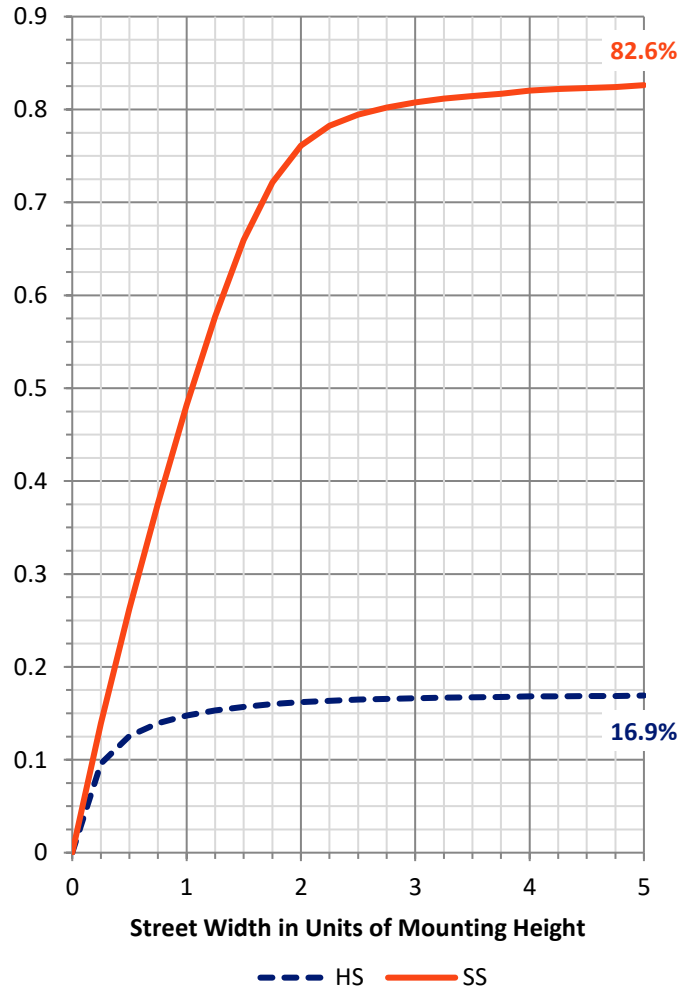
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3208.3	0.0	3208.3
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	15550.9	0.0	15550.9
	% Fixture	82.9	0.0	82.9
Total	Lumens	18759.2	0.0	18759.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	447.4	2.4
10°-20°	1002.4	5.3
20°-30°	1283.7	6.8
30°-40°	1687.1	9.0
40°-50°	2447.8	13.0
50°-60°	3819.1	20.4
60°-70°	5000.0	26.7
70°-80°	2764.8	14.7
80°-90°	306.8	1.6
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°	18759.2	100.0
0°-180°	18759.2	100.0

Coefficient of Utilization



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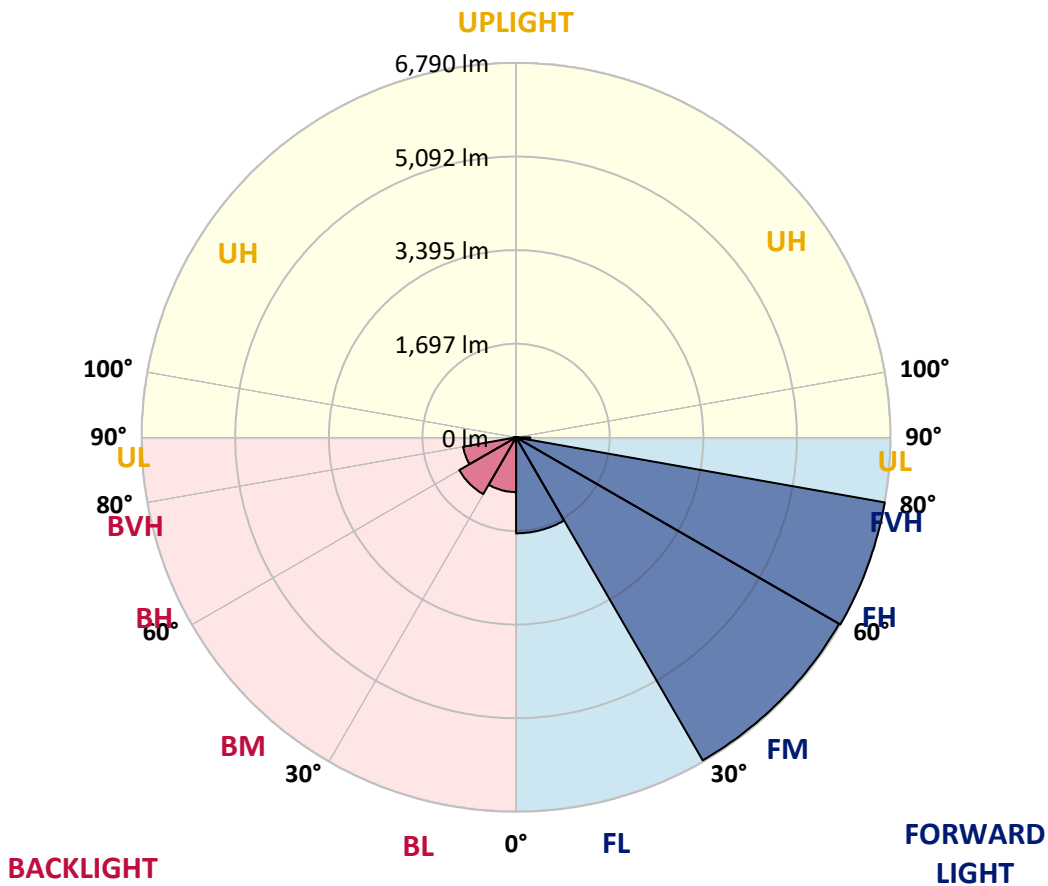
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1741.0	9.3			
FM (30°-60°)	6764.5	36.1			
FH (60°-80°)	6789.8	36.2			G3/7500
FVH (80°-90°)	255.7	1.4			G3/500
BL (0°-30°)	992.6	5.3	B2/1000		
BM (30°-60°)	1189.5	6.3	B2/2500		
BH (60°-80°)	975.0	5.2	B2/1000		G2/1000
BVH (80°-90°)	51.2	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0 </tr			

BUG Rating: B2-U0-G3

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	5190.9	5190.9	5190.9	5190.9	5190.9	5190.9	5190.9	5190.9	5190.9	5190.9	5190.9
2.5°	5118.2	5123.7	5138.8	5160.7	5182.7	5193.7	5221.1	5212.9	5207.4	5196.4	5182.7
5°	4891.7	4902.7	4916.4	4959.0	5007.0	5045.4	5107.2	5114.1	5116.8	5122.3	5100.3
7.5°	4603.5	4606.2	4639.2	4695.4	4758.6	4824.4	4927.4	4956.2	4980.9	5008.4	4990.5
10°	4285.0	4291.9	4316.6	4397.6	4506.0	4603.5	4742.1	4790.1	4842.3	4902.7	4878.0
12.5°	4024.3	4025.6	4065.4	4151.9	4269.9	4401.7	4574.6	4632.3	4700.9	4795.6	4773.7
15°	3817.0	3817.0	3854.1	3928.2	4064.1	4219.2	4425.0	4499.2	4592.5	4720.1	4681.7
17.5°	3652.3	3653.7	3677.0	3755.2	3876.0	4047.6	4291.9	4392.1	4495.0	4663.9	4606.2
20°	3565.8	3559.0	3563.1	3611.1	3714.1	3880.1	4158.8	4275.4	4414.1	4625.4	4537.6
22.5°	3561.7	3549.4	3531.5	3535.6	3596.0	3733.3	4016.0	4157.4	4331.7	4593.9	4467.6
25°	3631.7	3618.0	3586.4	3550.7	3545.2	3627.6	3881.5	4042.1	4246.6	4580.1	4400.3
27.5°	3749.8	3740.1	3699.0	3645.4	3589.2	3586.4	3780.0	3947.4	4184.8	4593.9	4352.3
30°	3906.2	3889.8	3863.7	3795.0	3710.0	3622.1	3740.1	3896.6	4143.7	4637.8	4331.7
32.5°	4083.3	4073.7	4049.0	3980.3	3889.8	3749.8	3771.7	3907.6	4143.7	4714.6	4335.8
35°	4271.3	4269.9	4269.9	4224.7	4124.5	3950.1	3896.6	4000.9	4206.8	4838.2	4379.7
37.5°	4453.9	4452.5	4496.4	4512.9	4399.0	4210.9	4109.4	4187.6	4345.4	5020.7	4488.2
40°	4602.1	4607.6	4703.7	4786.0	4722.9	4548.6	4405.8	4445.6	4570.5	5280.1	4677.6
42.5°	4751.7	4766.8	4910.9	5056.4	5081.1	4930.1	4786.0	4809.3	4893.1	5623.3	4960.3
45°	4915.0	4921.9	5123.7	5326.8	5446.2	5357.0	5239.0	5270.5	5289.7	6047.4	5381.7
47.5°	5072.9	5090.7	5351.5	5630.1	5856.6	5848.4	5782.5	5772.9	5777.0	6563.4	5879.9
50°	5288.4	5314.4	5620.5	5956.8	6288.9	6441.3	6460.5	6387.8	6357.6	7137.2	6500.3
52.5°	5697.4	5697.4	5971.9	6302.7	6748.7	7126.2	7255.2	7135.8	7039.7	7743.8	7159.1
55°	6209.3	6231.3	6449.5	6717.2	7282.7	7846.8	8283.2	8151.5	7879.7	8404.0	7849.5
57.5°	6437.2	6464.6	6810.5	7226.4	7981.3	8666.2	9271.4	9224.8	8828.1	9090.3	8566.0
60°	6025.4	6083.1	6559.3	7256.6	8614.0	9987.9	10414.8	10278.9	9712.0	9810.9	9342.8
62.5°	5026.2	5089.3	5617.8	6590.9	8526.2	11416.7	12216.9	11715.9	10815.5	10720.8	10377.7
65°	2999.0	2996.2	3631.7	4921.9	7443.2	11813.4	15069.0	14134.3	12520.2	11969.8	11442.8
67.5°	1906.4	1902.3	2035.5	2607.8	4953.5	10841.6	16902.7	17145.7	14835.7	12888.1	11530.6
70°	1504.3	1502.9	1599.0	1859.8	2450.0	7715.0	16392.1	18073.5	16234.3	12538.1	10152.6
72.5°	1096.7	1099.4	1247.6	1557.8	1890.0	3873.3	13273.8	15464.3	14931.8	11068.1	8242.1
75°	787.8	792.0	881.2	1192.7	1743.1	2117.8	8826.7	11628.1	11360.4	8872.0	5669.9
77.5°	501.0	506.5	584.7	835.9	1408.2	1710.2	5351.5	8209.1	7558.5	4998.8	2016.2
80°	306.1	323.9	389.8	623.1	1125.5	1283.3	2675.1	4324.8	3785.4	1371.2	678.0
82.5°	157.8	171.6	234.7	385.7	775.5	1126.8	1513.9	1817.2	1172.1	573.7	361.0
85°	49.4	57.6	82.4	156.5	369.2	698.6	1001.9	903.1	538.0	270.4	167.4
87.5°	12.4	12.4	13.7	13.7	15.1	31.6	193.5	204.5	142.7	85.1	68.6
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°	5190.9	5190.9	5190.9	5190.9	5190.9	5190.9	5190.9	5190.9	5190.9	5190.9	5190.9
2.5°	5155.2	5122.3	5108.6	5107.2	5072.9	5023.5	4990.5	4967.2	4953.5	4950.7	4950.7
5°	5063.3	5020.7	4964.4	4921.9	4829.9	4736.6	4658.4	4614.5	4563.7	4556.8	4555.4
7.5°	4941.1	4879.3	4772.3	4652.9	4492.3	4337.2	4205.4	4116.2	4027.0	4010.5	4005.0
10°	4809.3	4725.6	4543.1	4333.1	4092.9	3860.9	3659.2	3501.3	3397.0	3322.9	3309.2
12.5°	4679.0	4567.8	4300.1	3987.2	3657.8	3340.7	3037.4	2779.4	2592.7	2484.3	2465.1
15°	4556.8	4401.7	4035.2	3635.8	3207.6	2773.9	2344.3	2009.4	1747.2	1653.9	1631.9
17.5°	4445.6	4252.1	3778.6	3272.1	2738.2	2171.3	1682.7	1384.9	1231.2	1184.5	1173.5
20°	4334.5	4098.4	3517.8	2889.2	2240.0	1604.5	1229.8	1089.8	1032.1	1014.3	1008.8
22.5°	4215.0	3929.6	3233.7	2511.7	1736.3	1201.0	1006.1	944.3	926.5	927.8	926.5
25°	4095.6	3758.0	2935.8	2101.3	1292.9	974.5	878.4	855.1	859.2	871.6	874.3
27.5°	3996.8	3605.6	2643.5	1651.2	1010.2	838.6	793.3	792.0	807.0	823.5	826.3
30°	3925.4	3469.8	2355.3	1269.6	831.8	745.3	727.4	735.7	753.5	765.9	770.0
32.5°	3874.7	3353.1	2047.8	997.8	728.8	679.4	671.2	679.4	690.4	702.7	705.5
35°	3856.8	3268.0	1745.9	813.9	658.8	631.4	625.9	630.0	635.5	642.3	645.1
37.5°	3896.6	3225.4	1430.2	708.2	616.3	599.8	591.6	588.8	590.2	592.9	594.3
40°	4014.7	3244.7	1172.1	646.5	588.8	573.7	560.0	554.5	553.1	555.9	554.5
42.5°	4217.8	3325.6	985.5	610.8	566.9	544.9	529.8	524.3	524.3	531.2	531.2
45°	4515.6	3484.9	851.0	584.7	547.6	520.2	503.7	501.0	506.5	517.4	518.8
47.5°	4952.1	3718.2	770.0	565.5	529.8	498.2	481.8	480.4	491.4	509.2	510.6
50°	5469.5	4054.5	726.1	551.8	517.4	480.4	463.9	465.3	477.6	496.9	501.0
52.5°	6092.7	4512.9	728.8	546.3	510.6	469.4	452.9	450.2	462.5	481.8	485.9
55°	6736.4	5070.1	782.3	547.6	501.0	463.9	442.0	432.3	443.3	457.1	458.4
57.5°	7444.6	5698.7	915.5	544.9	488.6	458.4	432.3	410.4	417.2	425.5	429.6
60°	8243.4	6438.5	1202.3	550.4	483.1	446.1	413.1	384.3	382.9	388.4	389.8
62.5°	9311.3	7444.6	1524.9	560.0	495.5	431.0	384.3	354.1	348.6	351.4	352.7
65°	10127.9	7925.0	1423.3	551.8	521.6	420.0	356.9	325.3	314.3	311.6	311.6
67.5°	9795.8	7289.5	991.0	529.8	533.9	421.4	334.9	295.1	281.4	274.5	273.1
70°	8335.4	5921.1	689.0	507.8	520.2	418.6	311.6	270.4	252.5	242.9	241.6
72.5°	6585.4	4521.1	557.2	463.9	472.2	377.4	277.3	242.9	227.8	215.5	215.5
75°	4238.4	2758.8	465.3	413.1	385.7	293.7	240.2	216.9	201.8	189.4	189.4
77.5°	1426.1	1023.9	361.0	350.0	288.2	221.0	201.8	186.7	174.3	163.3	162.0
80°	579.2	485.9	264.9	264.9	201.8	168.8	157.8	151.0	142.7	129.0	129.0
82.5°	336.3	295.1	185.3	160.6	134.5	116.7	109.8	102.9	102.9	93.3	93.3
85°	162.0	163.3	111.2	98.8	76.9	67.3	64.5	60.4	59.0	53.5	52.2
87.5°	87.8	89.2	56.3	43.9	30.2	26.1	22.0	20.6	19.2	17.8	17.8
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)