

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: P637032

Luminaire Tested: GWS-SA4C-722-U-AFL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637032
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-46)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4C-722-U-AFL-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10768.9 lumens
Efficiency: N/A
Efficacy: 83.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G0

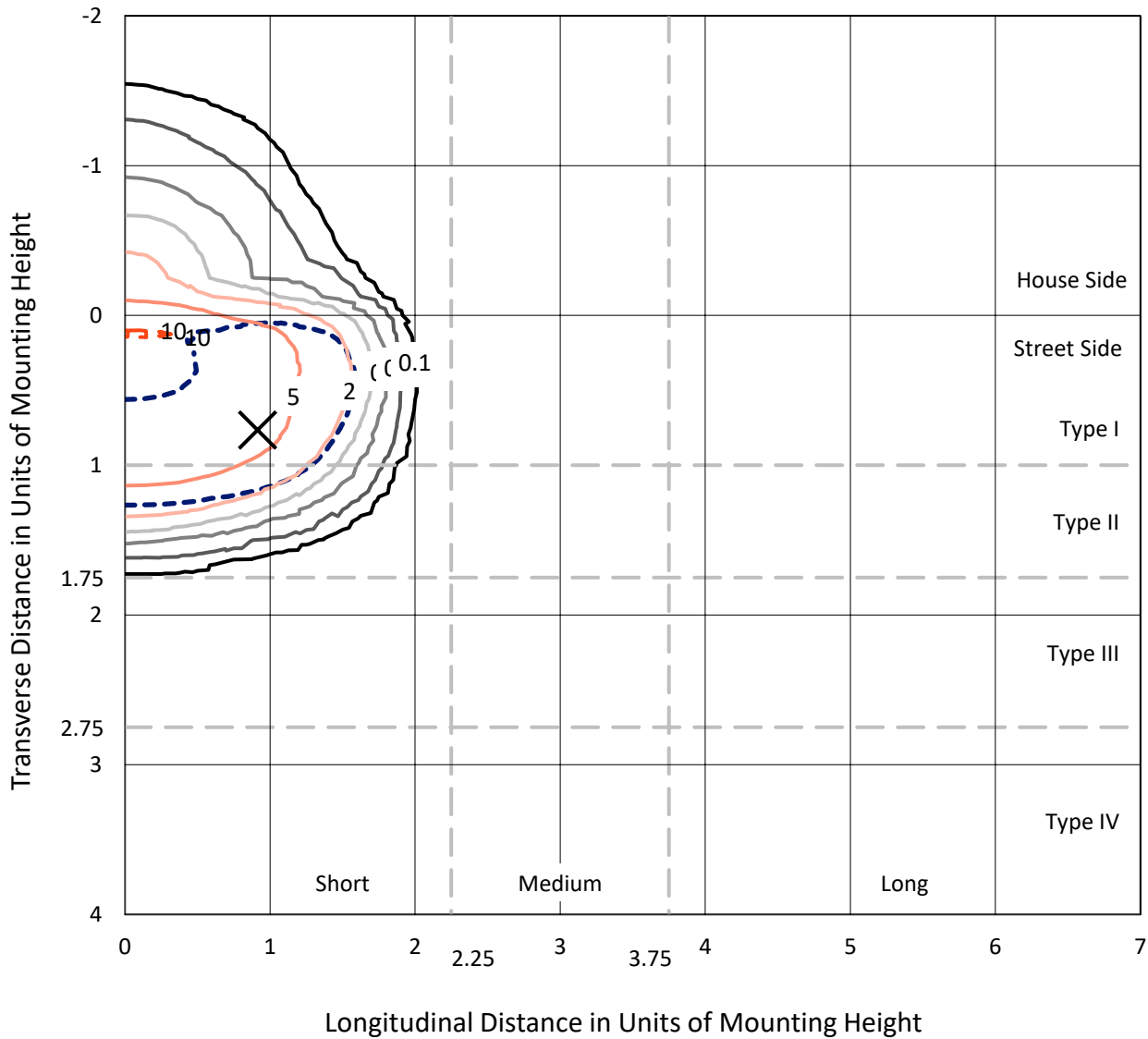
Input Watts (W): 128.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

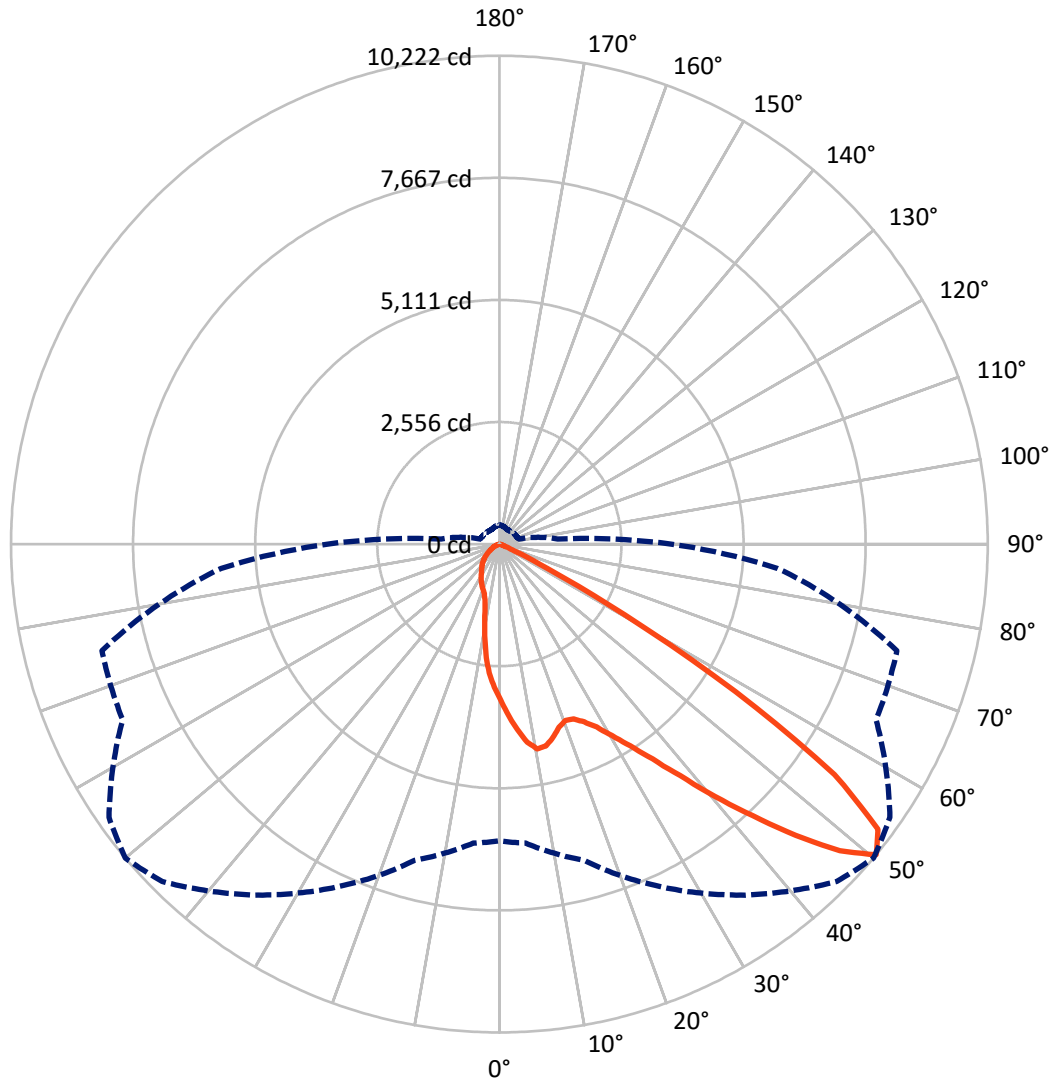
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 10.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 50-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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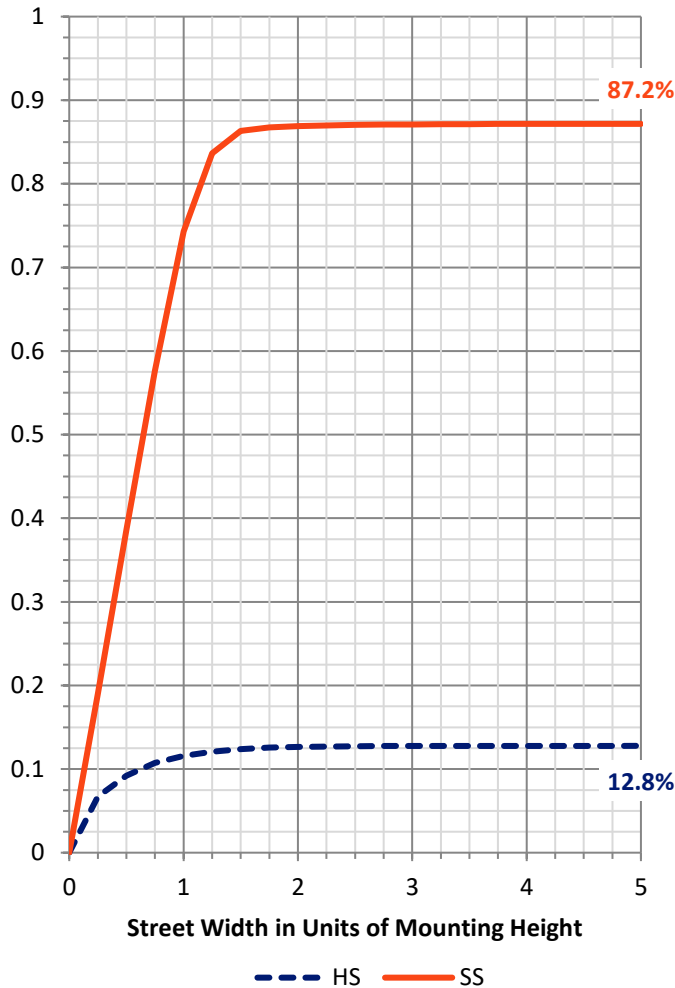
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1383.6	0.0	1383.6
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	9385.2	0.0	9385.2
	% Fixture	87.2	0.0	87.2
Total	Lumens	10768.9	0.0	10768.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	302.6	2.8
10°-20°	780.9	7.3
20°-30°	1288.7	12.0
30°-40°	2126.6	19.7
40°-50°	3364.8	31.2
50°-60°	2547.6	23.7
60°-70°	318.8	3.0
70°-80°	36.1	0.3
80°-90°	2.7	0.0
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°	10768.9	100.0
0°-180°	10768.9	100.0

Coefficient of Utilization



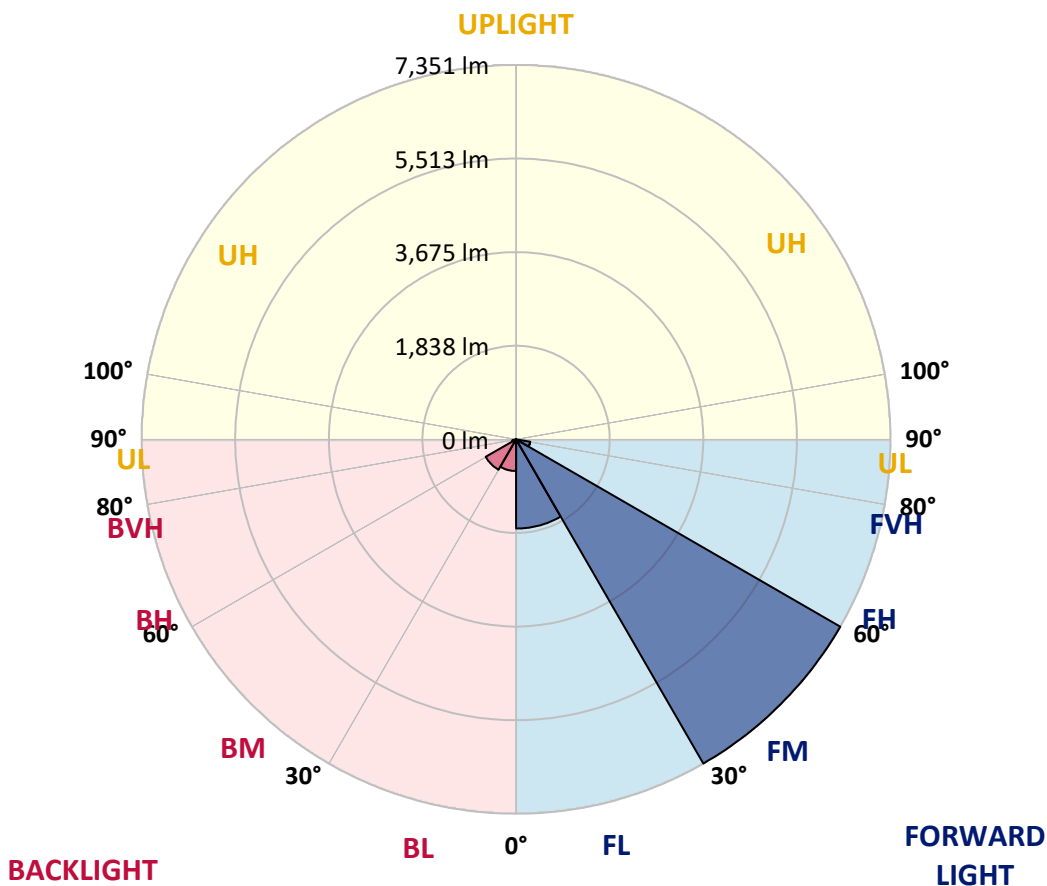
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1751.2	16.3			
FM (30°-60°)	7350.9	68.3			
FH (60°-80°)	281.9	2.6			G0/660
FVH (80°-90°)	1.3	0.0			G0/10
BL (0°-30°)	621.0	5.8	B2/1000		
BM (30°-60°)	688.1	6.4	B1/1000		
BH (60°-80°)	73.0	0.7	B0/110		G0/110
BVH (80°-90°)	1.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G0
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	3262.5	3262.5	3262.5	3262.5	3262.5	3262.5	3262.5	3262.5	3262.5	3262.5	3262.5
2.5°	3717.6	3747.4	3739.2	3700.2	3658.2	3628.5	3582.3	3568.0	3463.4	3390.7	3313.8
5°	4166.6	4175.8	4165.6	4118.4	4044.6	3973.9	3898.0	3854.0	3678.7	3520.8	3359.9
7.5°	4274.2	4262.9	4282.4	4306.0	4295.7	4265.0	4185.0	4136.9	3927.8	3670.5	3426.5
10°	3938.0	3912.4	3985.2	4107.1	4235.3	4379.8	4359.3	4363.4	4170.7	3859.1	3513.7
12.5°	3492.1	3481.9	3536.2	3677.7	3928.8	4256.8	4335.7	4467.9	4393.1	4063.1	3613.1
15°	3296.4	3301.5	3334.3	3423.5	3603.9	4011.8	4201.4	4440.3	4592.0	4260.9	3722.8
17.5°	3326.1	3344.5	3343.5	3373.2	3482.9	3809.9	4031.3	4353.1	4745.7	4488.4	3848.8
20°	3528.0	3546.5	3518.8	3496.2	3533.1	3758.6	3942.1	4265.0	4849.2	4718.0	3982.1
22.5°	3830.4	3851.9	3786.3	3721.7	3698.2	3842.7	3975.9	4229.1	4928.2	4928.2	4101.0
25°	4196.3	4226.0	4124.6	4009.8	3944.2	4020.0	4120.5	4310.1	5009.1	5116.8	4182.0
27.5°	4605.3	4606.3	4519.2	4390.0	4267.0	4276.3	4336.7	4492.5	5098.3	5319.7	4245.5
30°	5065.5	5068.6	4952.8	4798.0	4643.2	4601.2	4652.4	4770.3	5283.8	5574.9	4333.7
32.5°	5660.0	5674.4	5508.3	5280.8	5079.9	5000.9	5030.7	5154.7	5579.0	5894.7	4465.9
35°	6463.6	6479.0	6234.0	5933.7	5613.9	5495.0	5524.7	5649.8	6006.5	6348.8	4677.0
37.5°	7256.9	7277.4	7029.4	6749.6	6310.9	6114.1	6144.8	6263.7	6648.1	6976.1	5015.3
40°	7805.3	7833.0	7756.1	7567.5	7160.6	6902.3	6939.2	6982.2	7354.3	7726.4	5454.0
42.5°	8094.4	8133.3	8166.1	8262.5	8048.2	7832.0	7769.4	7772.5	8072.8	8491.0	5910.1
45°	8111.8	8149.7	8317.8	8689.9	8852.9	8807.8	8694.0	8617.1	8621.2	9000.5	6195.0
47.5°	7548.0	7618.8	7933.4	8662.2	9275.1	9649.3	9591.9	9409.4	8851.8	9034.3	6164.3
50°	6212.5	6282.2	6854.1	7902.7	8967.7	9985.5	10222.2	9977.3	8701.2	8613.0	5847.6
52.5°	4512.0	4519.2	4890.2	6115.1	7721.3	9365.3	9922.9	9899.4	8471.6	8102.6	5415.0
55°	2143.3	2117.6	2534.8	3451.1	5340.2	7574.7	8514.6	8781.1	8145.6	7733.6	5079.9
57.5°	624.2	636.5	822.0	1346.8	2671.1	4841.0	5831.2	6327.3	6686.0	6358.0	3940.1
60°	279.8	280.8	312.6	410.0	889.7	2251.9	3014.5	3628.5	3997.5	3704.3	1954.7
62.5°	202.9	204.0	216.3	231.6	302.4	762.6	1130.6	1506.7	1534.4	1004.5	495.1
65°	169.1	169.1	171.2	171.2	181.4	272.6	343.4	442.8	373.1	276.7	193.7
67.5°	136.3	137.3	139.4	139.4	136.3	136.3	147.6	161.9	173.2	214.2	178.3
70°	106.6	105.6	105.6	106.6	103.5	88.1	95.3	108.6	118.9	167.1	154.8
72.5°	83.0	84.0	83.0	78.9	71.7	52.3	56.4	70.7	75.8	104.5	104.5
75°	62.5	63.5	59.4	45.1	29.7	16.4	21.5	34.8	44.1	51.2	37.9
77.5°	8.2	8.2	6.1	6.1	5.1	6.1	6.1	8.2	12.3	12.3	9.2
80°	1.0	1.0	1.0	2.0	3.1	4.1	4.1	4.1	4.1	5.1	5.1
82.5°	1.0	1.0	1.0	1.0	3.1	3.1	4.1	4.1	4.1	4.1	4.1
85°	0.0	0.0	0.0	1.0	2.0	3.1	3.1	4.1	4.1	4.1	4.1
87.5°	0.0	0.0	0.0	1.0	2.0	3.1	3.1	3.1	4.1	4.1	4.1
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°	3262.5	3262.5	3262.5	3262.5	3262.5	3262.5	3262.5	3262.5	3262.5	3262.5	3262.5
2.5°	3267.7	3208.2	3136.5	3087.3	3017.6	2971.5	2905.9	2861.8	2823.9	2794.1	2810.5
5°	3268.7	3174.4	3027.8	2902.8	2766.5	2641.4	2507.1	2401.6	2306.2	2263.2	2286.8
7.5°	3289.2	3153.9	2929.4	2707.0	2445.6	2187.3	1945.4	1748.6	1651.3	1605.1	1619.5
10°	3329.2	3144.7	2819.8	2450.8	2026.4	1673.8	1439.1	1305.8	1251.5	1222.8	1227.9
12.5°	3366.1	3138.5	2677.3	2113.5	1599.0	1298.7	1176.7	1158.2	1169.5	1170.5	1169.5
15°	3416.3	3127.2	2501.0	1767.1	1279.2	1122.4	1125.4	1152.1	1178.7	1186.9	1184.9
17.5°	3469.6	3109.8	2273.4	1435.0	1085.5	1071.1	1107.0	1142.9	1169.5	1173.6	1174.6
20°	3524.9	3074.0	2014.1	1171.6	995.3	1032.2	1072.1	1098.8	1118.3	1124.4	1126.5
22.5°	3550.6	2998.1	1714.8	983.0	934.8	984.0	1013.7	1048.6	1054.7	1032.2	1036.3
25°	3537.2	2870.0	1422.7	855.9	874.3	923.5	967.6	950.2	924.5	908.1	913.3
27.5°	3495.2	2699.8	1136.7	762.6	809.7	872.3	877.4	857.9	853.8	840.5	844.6
30°	3450.1	2504.1	914.3	687.8	744.1	809.7	794.4	801.5	802.6	787.2	792.3
32.5°	3422.4	2299.1	727.7	637.5	702.1	714.4	745.2	759.5	760.5	724.7	730.8
35°	3431.7	2097.1	616.0	596.5	663.2	660.1	703.1	711.3	651.9	602.7	607.8
37.5°	3506.5	1910.6	552.5	564.8	595.5	619.1	651.9	597.6	584.2	561.7	564.8
40°	3645.9	1751.7	514.5	545.3	549.4	587.3	537.1	544.3	545.3	530.9	534.0
42.5°	3808.9	1619.5	492.0	534.0	523.8	529.9	479.7	494.0	509.4	503.3	504.3
45°	3890.9	1490.3	472.5	495.1	498.1	439.7	428.4	443.8	463.3	466.4	467.4
47.5°	3818.1	1367.3	452.0	438.7	459.2	400.8	387.4	392.6	415.1	427.4	429.5
50°	3595.7	1225.9	421.3	388.5	377.2	359.8	347.5	348.5	374.1	395.6	399.7
52.5°	3283.0	1078.3	371.0	329.0	303.4	316.7	319.8	313.6	337.2	358.7	362.8
55°	2979.7	893.8	294.2	267.5	243.9	272.6	280.8	272.6	279.8	294.2	295.2
57.5°	2098.2	505.3	225.5	221.4	201.9	233.7	247.0	234.7	222.4	231.6	233.7
60°	972.7	264.4	173.2	173.2	168.1	200.9	223.4	206.0	182.4	186.5	189.6
62.5°	304.4	167.1	127.1	119.9	137.3	171.2	189.6	172.2	144.5	144.5	148.6
65°	172.2	143.5	100.4	92.2	111.7	137.3	148.6	130.2	105.6	103.5	103.5
67.5°	159.9	136.3	89.2	74.8	78.9	88.1	92.2	79.9	72.8	71.7	72.8
70°	132.2	113.8	71.7	51.2	48.2	47.1	49.2	46.1	44.1	45.1	48.2
72.5°	82.0	68.7	45.1	30.7	26.6	25.6	25.6	25.6	24.6	24.6	24.6
75°	29.7	25.6	20.5	15.4	13.3	12.3	12.3	13.3	12.3	11.3	10.2
77.5°	9.2	8.2	8.2	8.2	7.2	6.1	5.1	5.1	4.1	3.1	3.1
80°	5.1	5.1	5.1	5.1	4.1	4.1	3.1	2.0	1.0	1.0	0.0
82.5°	5.1	5.1	5.1	4.1	4.1	4.1	3.1	2.0	1.0	0.0	0.0
85°	4.1	4.1	4.1	4.1	4.1	4.1	3.1	2.0	1.0	0.0	0.0
87.5°	4.1	4.1	4.1	4.1	4.1	4.1	3.1	2.0	1.0	0.0	0.0
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)