

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: P635547

Luminaire Tested: GWS-SA3E-722-U-AFL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P635547
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-SA3E-722-U-AFL-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (48) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12200.1 lumens
Efficiency: N/A
Efficacy: 76.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G0

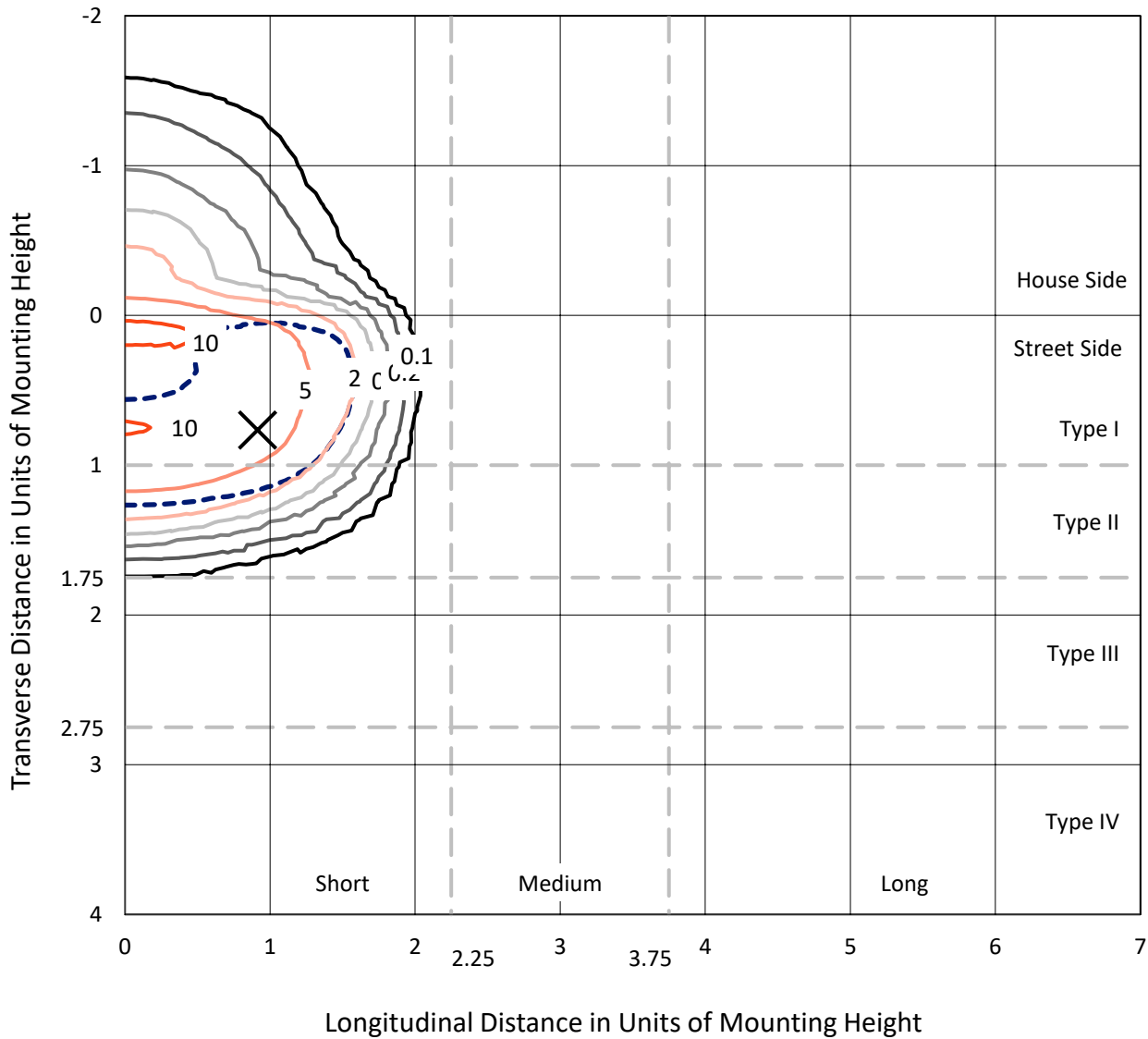
Input Watts (W): 159.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

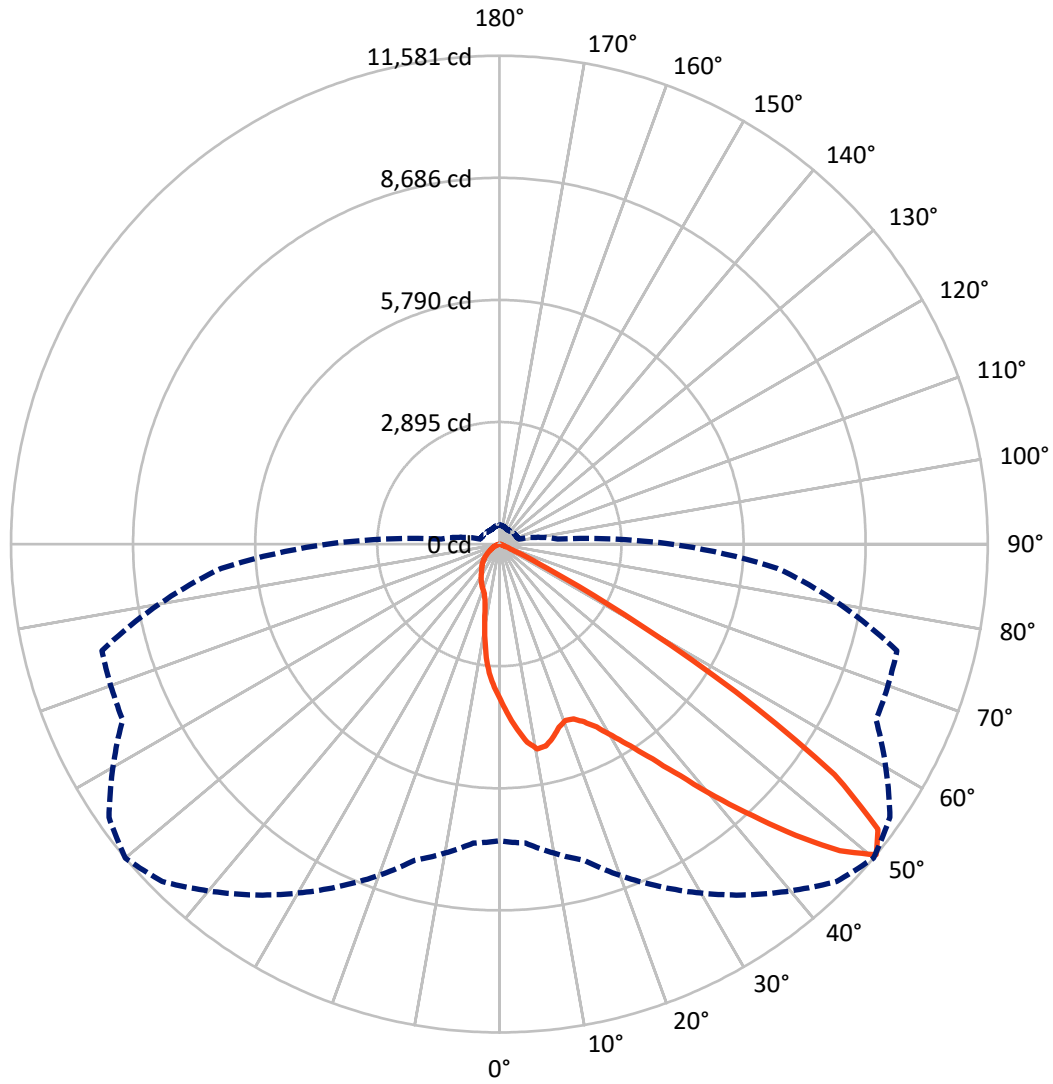
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 11.8 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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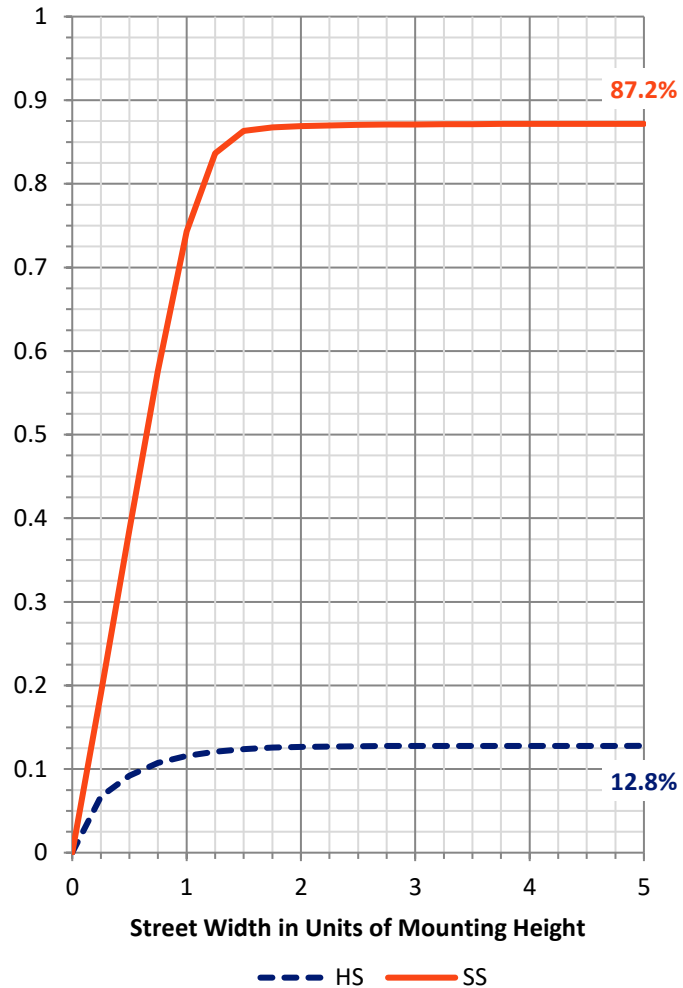
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1567.5	0.0	1567.5
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	10632.6	0.0	10632.6
	% Fixture	87.2	0.0	87.2
Total	Lumens	12200.1	0.0	12200.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	342.9	2.8
10°-20°	884.6	7.3
20°-30°	1460.0	12.0
30°-40°	2409.3	19.7
40°-50°	3812.0	31.2
50°-60°	2886.1	23.7
60°-70°	361.2	3.0
70°-80°	40.9	0.3
80°-90°	3.1	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°	12200.1	100.0
0°-180°	12200.1	100.0

Coefficient of Utilization



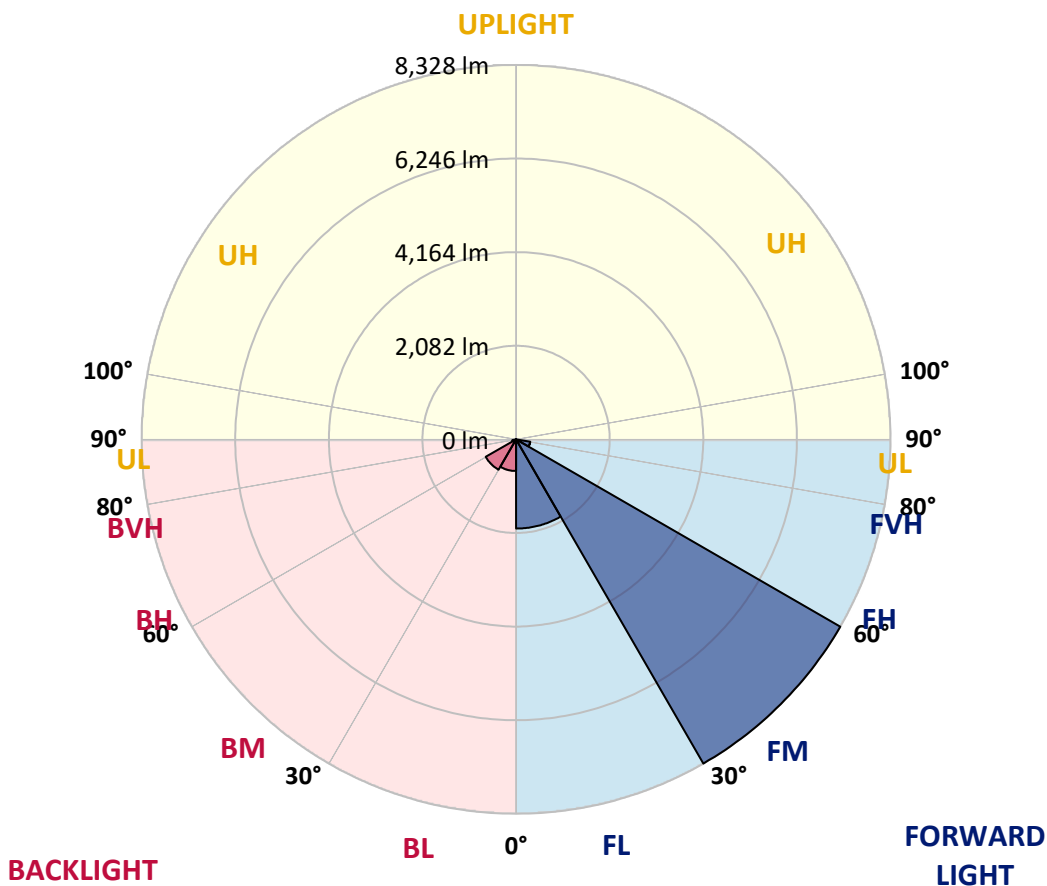
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1983.9	16.3			
FM (30°-60°)	8327.8	68.3			
FH (60°-80°)	319.4	2.6			G0/660
FVH (80°-90°)	1.5	0.0			G0/10
BL (0°-30°)	703.6	5.8	B2/1000		
BM (30°-60°)	779.6	6.4	B1/1000		
BH (60°-80°)	82.7	0.7	B0/110		G0/110
BVH (80°-90°)	1.7	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°	3696.1	3696.1	3696.1	3696.1	3696.1	3696.1	3696.1	3696.1	3696.1	3696.1	3696.1
2.5°	4211.7	4245.4	4236.1	4192.0	4144.4	4110.7	4058.4	4042.2	3923.7	3841.3	3754.2
5°	4720.3	4730.8	4719.2	4665.8	4582.2	4502.0	4416.1	4366.2	4167.6	3988.8	3806.5
7.5°	4842.3	4829.5	4851.6	4878.3	4866.6	4831.8	4741.2	4686.7	4449.8	4158.3	3881.9
10°	4461.4	4432.4	4514.8	4653.0	4798.1	4961.9	4938.6	4943.3	4725.0	4372.0	3980.6
12.5°	3956.3	3944.6	4006.2	4166.4	4450.9	4822.5	4911.9	5061.7	4977.0	4603.1	4093.3
15°	3734.5	3740.3	3777.4	3878.5	4082.8	4545.0	4759.8	5030.4	5202.2	4827.2	4217.5
17.5°	3768.1	3789.0	3787.9	3821.6	3945.8	4316.2	4567.1	4931.7	5376.4	5085.0	4360.4
20°	3996.9	4017.8	3986.4	3960.9	4002.7	4258.2	4466.0	4831.8	5493.7	5345.1	4511.3
22.5°	4339.5	4363.8	4289.5	4216.4	4189.7	4353.4	4504.4	4791.2	5583.1	5583.1	4646.0
25°	4754.0	4787.7	4672.7	4542.7	4468.4	4554.3	4668.1	4882.9	5674.9	5796.8	4737.8
27.5°	5217.3	5218.5	5119.8	4973.5	4834.1	4844.6	4913.1	5089.6	5775.9	6026.7	4809.7
30°	5738.7	5742.2	5611.0	5435.6	5260.3	5212.7	5270.8	5404.3	5986.1	6315.8	4909.6
32.5°	6412.2	6428.5	6240.4	5982.6	5755.0	5665.6	5699.2	5839.7	6320.5	6678.1	5059.4
35°	7322.6	7340.0	7062.5	6722.3	6360.0	6225.3	6258.9	6400.6	6804.7	7192.6	5298.6
37.5°	8221.4	8244.6	7963.6	7646.6	7149.6	6926.6	6961.5	7096.2	7531.6	7903.2	5681.8
40°	8842.6	8874.0	8786.9	8573.2	8112.2	7819.6	7861.4	7910.2	8331.7	8753.2	6178.8
42.5°	9170.1	9214.2	9251.4	9360.5	9117.9	8872.8	8802.0	8805.5	9145.7	9619.5	6695.6
45°	9189.9	9232.8	9423.3	9844.8	10029.4	9978.3	9849.4	9762.3	9767.0	10196.6	7018.4
47.5°	8551.2	8631.3	8987.8	9813.4	10507.8	10931.7	10866.6	10659.9	10028.2	10234.9	6983.5
50°	7038.1	7117.1	7765.0	8953.0	10159.5	11312.6	11580.8	11303.3	9857.5	9757.7	6624.7
52.5°	5111.7	5119.8	5540.2	6927.8	8747.4	10610.0	11241.7	11215.0	9597.4	9179.4	6134.7
55°	2428.1	2399.1	2871.7	3909.8	6049.9	8581.4	9646.2	9948.1	9228.2	8761.4	5755.0
57.5°	707.2	721.1	931.3	1525.8	3026.1	5484.4	6606.1	7168.2	7574.6	7203.0	4463.7
60°	317.0	318.2	354.2	464.5	1007.9	2551.2	3415.1	4110.7	4528.7	4196.6	2214.4
62.5°	229.9	231.1	245.0	262.4	342.6	863.9	1280.8	1707.0	1738.3	1138.0	560.9
65°	191.6	191.6	193.9	193.9	205.5	308.9	389.0	501.6	422.7	313.5	219.5
67.5°	154.4	155.6	157.9	157.9	154.4	154.4	167.2	183.5	196.2	242.7	202.1
70°	120.8	119.6	119.6	120.8	117.3	99.9	108.0	123.1	134.7	189.3	175.3
72.5°	94.1	95.2	94.1	89.4	81.3	59.2	63.9	80.1	85.9	118.4	118.4
75°	70.8	72.0	67.4	51.1	33.7	18.6	24.4	39.5	49.9	58.1	43.0
77.5°	9.3	9.3	7.0	7.0	5.8	7.0	7.0	9.3	13.9	13.9	10.5
80°	1.2	1.2	1.2	2.3	3.5	4.6	4.6	4.6	4.6	5.8	5.8
82.5°	1.2	1.2	1.2	1.2	3.5	3.5	4.6	4.6	4.6	4.6	4.6
85°	0.0	0.0	0.0	1.2	2.3	3.5	3.5	4.6	4.6	4.6	4.6
87.5°	0.0	0.0	0.0	1.2	2.3	3.5	3.5	3.5	4.6	4.6	4.6
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°	3696.1	3696.1	3696.1	3696.1	3696.1	3696.1	3696.1	3696.1	3696.1	3696.1	3696.1
2.5°	3702.0	3634.6	3553.3	3497.6	3418.6	3366.4	3292.0	3242.1	3199.1	3165.5	3184.0
5°	3703.1	3596.3	3430.2	3288.6	3134.1	2992.4	2840.3	2720.7	2612.7	2564.0	2590.7
7.5°	3726.3	3573.1	3318.8	3066.8	2770.7	2478.0	2204.0	1981.0	1870.7	1818.5	1834.7
10°	3771.6	3562.6	3194.5	2776.5	2295.7	1896.3	1630.3	1479.4	1417.8	1385.3	1391.1
12.5°	3813.4	3555.6	3033.1	2394.4	1811.5	1471.3	1333.1	1312.2	1324.9	1326.1	1324.9
15°	3870.3	3542.9	2833.4	2001.9	1449.2	1271.5	1275.0	1305.2	1335.4	1344.7	1342.4
17.5°	3930.7	3523.1	2575.6	1625.7	1229.7	1213.5	1254.1	1294.8	1324.9	1329.6	1330.8
20°	3993.4	3482.5	2281.8	1327.3	1127.5	1169.3	1214.6	1244.8	1266.9	1273.9	1276.2
22.5°	4022.4	3396.6	1942.7	1113.6	1059.0	1114.8	1148.4	1187.9	1194.9	1169.3	1174.0
25°	4007.4	3251.4	1611.8	969.6	990.5	1046.3	1096.2	1076.4	1047.4	1028.8	1034.6
27.5°	3959.7	3058.6	1287.8	863.9	917.4	988.2	994.0	971.9	967.3	952.2	956.8
30°	3908.6	2836.8	1035.8	779.2	843.0	917.4	899.9	908.1	909.2	891.8	897.6
32.5°	3877.3	2604.6	824.5	722.3	795.4	809.4	844.2	860.5	861.6	821.0	827.9
35°	3887.7	2375.8	697.9	675.8	751.3	747.8	796.6	805.9	738.5	682.8	688.6
37.5°	3972.5	2164.5	625.9	639.8	674.7	701.4	738.5	677.0	661.9	636.3	639.8
40°	4130.4	1984.5	582.9	617.8	622.4	665.4	608.5	616.6	617.8	601.5	605.0
42.5°	4315.1	1834.7	557.4	605.0	593.4	600.3	543.4	559.7	577.1	570.2	571.3
45°	4408.0	1688.4	535.3	560.9	564.4	498.2	485.4	502.8	524.9	528.4	529.5
47.5°	4325.5	1549.1	512.1	497.0	520.2	454.0	438.9	444.7	470.3	484.2	486.5
50°	4073.5	1388.8	477.3	440.1	427.3	407.6	393.7	394.8	423.8	448.2	452.9
52.5°	3719.4	1221.6	420.4	372.7	343.7	358.8	362.3	355.3	382.0	406.4	411.1
55°	3375.7	1012.6	333.3	303.1	276.4	308.9	318.2	308.9	317.0	333.3	334.4
57.5°	2377.0	572.5	255.5	250.8	228.8	264.8	279.9	265.9	252.0	262.4	264.8
60°	1102.0	299.6	196.2	196.2	190.4	227.6	253.1	233.4	206.7	211.3	214.8
62.5°	344.9	189.3	144.0	135.9	155.6	193.9	214.8	195.1	163.7	163.7	168.4
65°	195.1	162.6	113.8	104.5	126.6	155.6	168.4	147.5	119.6	117.3	117.3
67.5°	181.1	154.4	101.0	84.8	89.4	99.9	104.5	90.6	82.4	81.3	82.4
70°	149.8	128.9	81.3	58.1	54.6	53.4	55.7	52.3	49.9	51.1	54.6
72.5°	92.9	77.8	51.1	34.8	30.2	29.0	29.0	29.0	27.9	27.9	27.9
75°	33.7	29.0	23.2	17.4	15.1	13.9	13.9	15.1	13.9	12.8	11.6
77.5°	10.5	9.3	9.3	9.3	8.1	7.0	5.8	5.8	4.6	3.5	3.5
80°	5.8	5.8	5.8	5.8	4.6	4.6	3.5	2.3	1.2	1.2	0.0
82.5°	5.8	5.8	5.8	4.6	4.6	4.6	3.5	2.3	1.2	0.0	0.0
85°	4.6	4.6	4.6	4.6	4.6	4.6	3.5	2.3	1.2	0.0	0.0
87.5°	4.6	4.6	4.6	4.6	4.6	4.6	3.5	2.3	1.2	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)