

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: P636042

Luminaire Tested: GWS-SA3F-722-U-AFL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636042
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-SA3F-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: 13564.3 lumens
Efficiency: N/A
Efficacy: 74.0 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

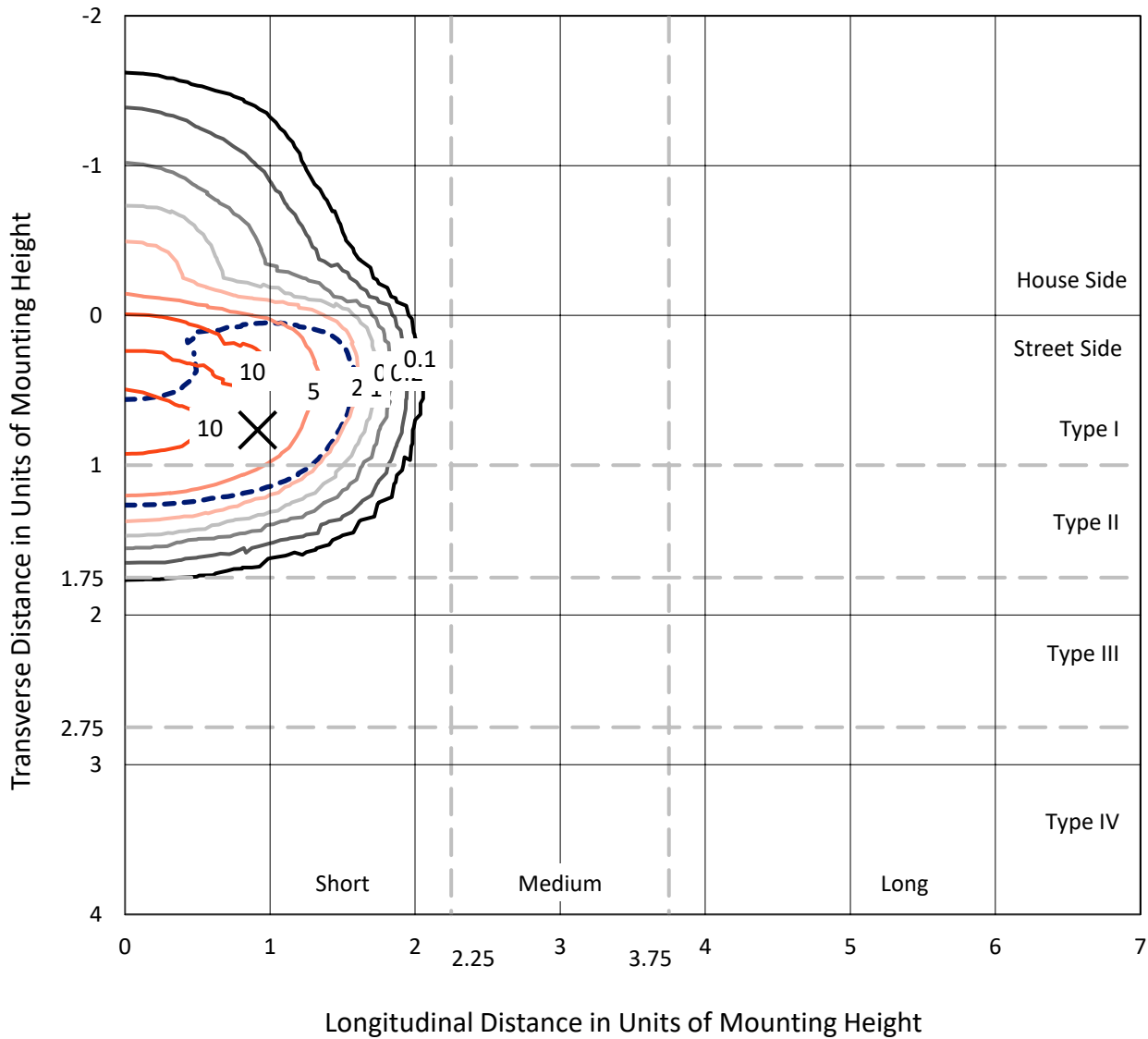
Input Watts (W): 183.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

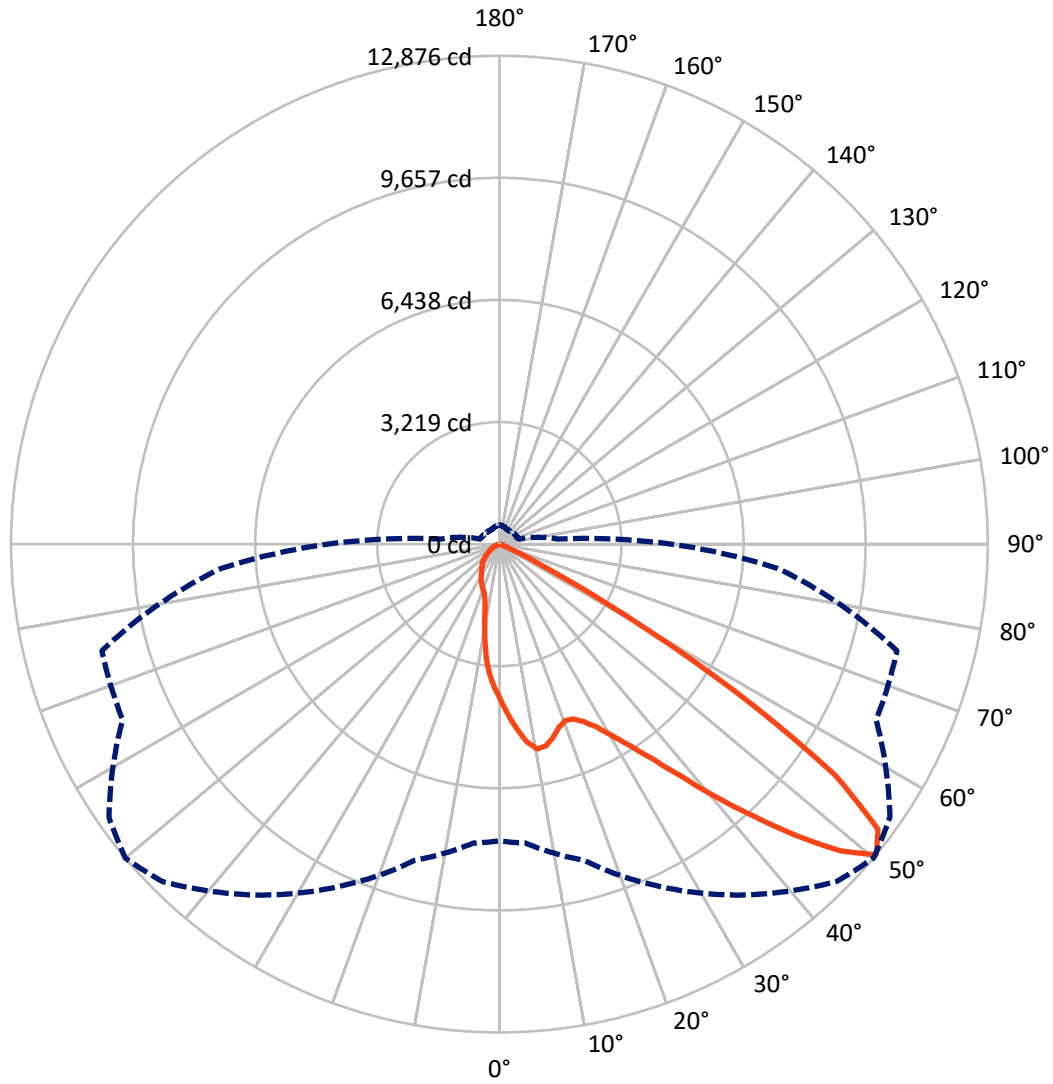
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 13.2 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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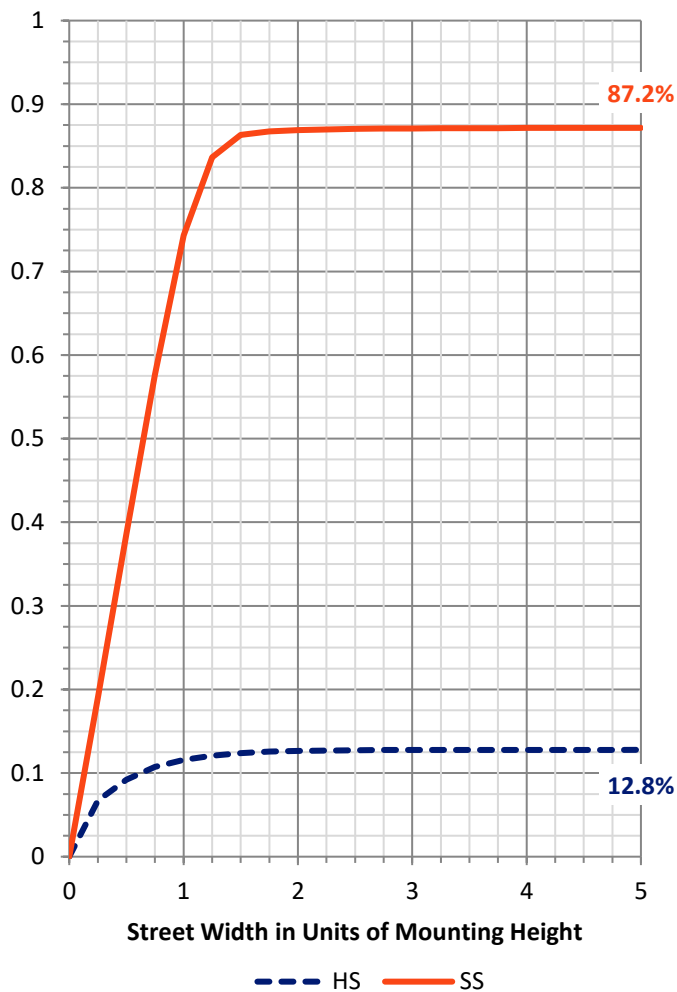
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1742.8	0.0	1742.8
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	11821.5	0.0	11821.5
	% Fixture	87.2	0.0	87.2
Total	Lumens	13564.3	0.0	13564.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	381.2	2.8
10°-20°	983.6	7.3
20°-30°	1623.2	12.0
30°-40°	2678.7	19.7
40°-50°	4238.3	31.2
50°-60°	3208.9	23.7
60°-70°	401.6	3.0
70°-80°	45.4	0.3
80°-90°	3.5	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°	13564.3	100.0
0°-180°	13564.3	100.0

Coefficient of Utilization



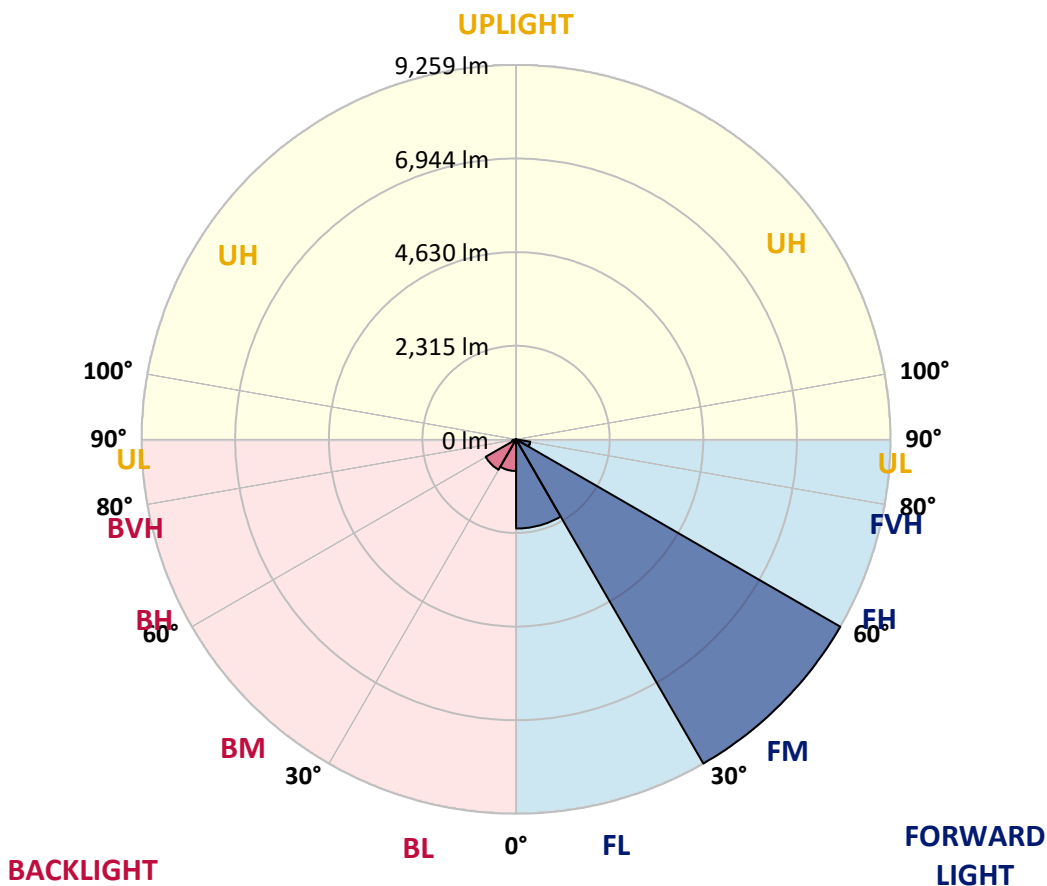
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2205.7	16.3			
FM (30°-60°)	9259.1	68.3			
FH (60°-80°)	355.1	2.6			G0/660
FVH (80°-90°)	1.6	0.0			G0/10
BL (0°-30°)	782.2	5.8	B2/1000		
BM (30°-60°)	866.7	6.4	B1/1000		
BH (60°-80°)	92.0	0.7	B0/110		G0/110
BVH (80°-90°)	1.9	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°	4109.4	4109.4	4109.4	4109.4	4109.4	4109.4	4109.4	4109.4	4109.4	4109.4	4109.4
2.5°	4682.7	4720.1	4709.8	4660.7	4607.8	4570.4	4512.3	4494.2	4362.5	4270.8	4174.0
5°	5248.2	5259.8	5246.9	5187.5	5094.5	5005.4	4909.9	4854.4	4633.6	4434.8	4232.1
7.5°	5383.7	5369.5	5394.0	5423.7	5410.8	5372.1	5271.4	5210.7	4947.3	4623.3	4316.0
10°	4960.3	4928.0	5019.6	5173.3	5334.7	5516.7	5490.9	5496.0	5253.3	4860.8	4425.8
12.5°	4398.6	4385.7	4454.2	4632.3	4948.6	5361.8	5461.2	5627.7	5533.5	5117.8	4551.0
15°	4152.0	4158.5	4199.8	4312.1	4539.4	5053.2	5292.1	5592.9	5783.9	5366.9	4689.1
17.5°	4189.5	4212.7	4211.4	4248.9	4387.0	4798.9	5077.7	5483.1	5977.6	5653.6	4847.9
20°	4443.8	4467.1	4432.2	4403.8	4450.3	4734.3	4965.4	5372.1	6108.0	5942.7	5015.8
22.5°	4824.7	4851.8	4769.2	4687.8	4658.1	4840.2	5008.0	5326.9	6207.4	6207.4	5165.5
25°	5285.6	5323.0	5195.2	5050.6	4968.0	5063.5	5190.1	5428.9	6309.4	6445.0	5267.5
27.5°	5800.7	5802.0	5692.3	5529.6	5374.7	5386.3	5462.5	5658.7	6421.7	6700.6	5347.6
30°	6380.4	6384.3	6238.4	6043.5	5848.5	5795.6	5860.1	6008.6	6655.4	7022.1	5458.6
32.5°	7129.2	7147.3	6938.2	6651.5	6398.5	6299.1	6336.5	6492.7	7027.2	7424.9	5625.1
35°	8141.4	8160.8	7852.2	7473.9	7071.1	6921.4	6958.8	7116.3	7565.6	7996.8	5891.1
37.5°	9140.7	9166.5	8854.1	8501.6	7949.1	7701.2	7739.9	7889.7	8373.8	8787.0	6317.2
40°	9831.4	9866.3	9769.5	9531.9	9019.3	8694.0	8740.5	8794.7	9263.4	9732.0	6869.7
42.5°	10195.5	10244.6	10285.9	10407.2	10137.4	9865.0	9786.2	9790.1	10168.4	10695.1	7444.3
45°	10217.4	10265.2	10477.0	10945.6	11150.9	11094.1	10950.8	10853.9	10859.1	11336.8	7803.2
47.5°	9507.4	9596.4	9992.8	10910.7	11682.8	12154.0	12081.7	11851.9	11149.6	11379.4	7764.4
50°	7825.1	7912.9	8633.3	9954.1	11295.5	12577.5	12875.7	12567.2	10959.8	10848.8	7365.5
52.5°	5683.2	5692.3	6159.6	7702.5	9725.6	11796.4	12498.8	12469.1	10670.6	10205.8	6820.7
55°	2699.6	2667.3	3192.8	4347.0	6726.4	9540.9	10724.8	11060.5	10260.1	9741.0	6398.5
57.5°	786.3	801.7	1035.4	1696.5	3364.5	6097.7	7344.8	7969.7	8421.6	8008.4	4962.8
60°	352.5	353.8	393.8	516.4	1120.6	2836.5	3797.0	4570.4	5035.1	4665.9	2462.1
62.5°	255.6	256.9	272.4	291.8	380.9	960.5	1424.0	1897.9	1932.7	1265.2	623.6
65°	213.0	213.0	215.6	215.6	228.5	343.4	432.5	557.7	469.9	348.6	244.0
67.5°	171.7	173.0	175.6	175.6	171.7	171.7	185.9	204.0	218.2	269.8	224.6
70°	134.3	133.0	133.0	134.3	130.4	111.0	120.1	136.9	149.8	210.4	195.0
72.5°	104.6	105.9	104.6	99.4	90.4	65.8	71.0	89.1	95.5	131.7	131.7
75°	78.8	80.0	74.9	56.8	37.4	20.7	27.1	43.9	55.5	64.6	47.8
77.5°	10.3	10.3	7.7	7.7	6.5	7.7	7.7	10.3	15.5	15.5	11.6
80°	1.3	1.3	1.3	2.6	3.9	5.2	5.2	5.2	5.2	6.5	6.5
82.5°	1.3	1.3	1.3	1.3	3.9	3.9	5.2	5.2	5.2	5.2	5.2
85°	0.0	0.0	0.0	1.3	2.6	3.9	3.9	5.2	5.2	5.2	5.2
87.5°	0.0	0.0	0.0	1.3	2.6	3.9	3.9	3.9	5.2	5.2	5.2
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°	4109.4	4109.4	4109.4	4109.4	4109.4	4109.4	4109.4	4109.4	4109.4	4109.4	4109.4
2.5°	4115.9	4041.0	3950.6	3888.7	3800.9	3742.8	3660.2	3604.6	3556.9	3519.4	3540.1
5°	4117.2	3998.4	3813.8	3656.3	3484.6	3327.1	3157.9	3025.0	2904.9	2850.7	2880.4
7.5°	4143.0	3972.6	3689.8	3409.7	3080.5	2755.1	2450.4	2202.5	2079.9	2021.8	2039.9
10°	4193.4	3961.0	3551.7	3086.9	2552.4	2108.3	1812.6	1644.8	1576.4	1540.2	1546.7
12.5°	4239.8	3953.2	3372.2	2662.2	2014.1	1635.8	1482.1	1458.9	1473.1	1474.4	1473.1
15°	4303.1	3939.0	3150.2	2225.8	1611.2	1413.7	1417.6	1451.2	1484.7	1495.0	1492.5
17.5°	4370.2	3917.1	2863.6	1807.5	1367.2	1349.2	1394.3	1439.5	1473.1	1478.3	1479.6
20°	4440.0	3871.9	2536.9	1475.7	1253.6	1300.1	1350.4	1384.0	1408.5	1416.3	1418.9
22.5°	4472.2	3776.4	2159.9	1238.1	1177.4	1239.4	1276.9	1320.8	1328.5	1300.1	1305.3
25°	4455.4	3615.0	1792.0	1078.0	1101.3	1163.2	1218.8	1196.8	1164.5	1143.9	1150.3
27.5°	4402.5	3400.7	1431.8	960.5	1019.9	1098.7	1105.1	1080.6	1075.5	1058.7	1063.8
30°	4345.7	3154.1	1151.6	866.3	937.3	1019.9	1000.6	1009.6	1010.9	991.5	998.0
32.5°	4310.8	2895.8	916.7	803.0	884.4	899.9	938.6	956.7	958.0	912.8	920.5
35°	4322.5	2641.5	775.9	751.4	835.3	831.4	885.7	896.0	821.1	759.1	765.6
37.5°	4416.7	2406.5	695.9	711.4	750.1	779.8	821.1	752.7	735.9	707.5	711.4
40°	4592.3	2206.4	648.1	686.8	692.0	739.8	676.5	685.6	686.8	668.8	672.6
42.5°	4797.6	2039.9	619.7	672.6	659.7	667.5	604.2	622.3	641.7	633.9	635.2
45°	4900.9	1877.2	595.2	623.6	627.5	553.9	539.7	559.0	583.6	587.4	588.7
47.5°	4809.2	1722.3	569.4	552.6	578.4	504.8	488.0	494.5	522.9	538.4	541.0
50°	4529.0	1544.1	530.6	489.3	475.1	453.2	437.7	439.0	471.2	498.3	503.5
52.5°	4135.3	1358.2	467.4	414.4	382.2	398.9	402.8	395.1	424.8	451.9	457.0
55°	3753.1	1125.8	370.5	337.0	307.3	343.4	353.8	343.4	352.5	370.5	371.8
57.5°	2642.8	636.5	284.0	278.9	254.3	294.4	311.1	295.7	280.2	291.8	294.4
60°	1225.2	333.1	218.2	218.2	211.7	253.0	281.5	259.5	229.8	235.0	238.8
62.5°	383.4	210.4	160.1	151.1	173.0	215.6	238.8	216.9	182.0	182.0	187.2
65°	216.9	180.7	126.5	116.2	140.7	173.0	187.2	164.0	133.0	130.4	130.4
67.5°	201.4	171.7	112.3	94.2	99.4	111.0	116.2	100.7	91.7	90.4	91.7
70°	166.5	143.3	90.4	64.6	60.7	59.4	62.0	58.1	55.5	56.8	60.7
72.5°	103.3	86.5	56.8	38.7	33.6	32.3	32.3	32.3	31.0	31.0	31.0
75°	37.4	32.3	25.8	19.4	16.8	15.5	15.5	16.8	15.5	14.2	12.9
77.5°	11.6	10.3	10.3	10.3	9.0	7.7	6.5	6.5	5.2	3.9	3.9
80°	6.5	6.5	6.5	6.5	5.2	5.2	3.9	2.6	1.3	1.3	0.0
82.5°	6.5	6.5	6.5	5.2	5.2	5.2	3.9	2.6	1.3	0.0	0.0
85°	5.2	5.2	5.2	5.2	5.2	5.2	3.9	2.6	1.3	0.0	0.0
87.5°	5.2	5.2	5.2	5.2	5.2	5.2	3.9	2.6	1.3	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)