

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: P633897

Luminaire Tested: GWS-SA2F-760-U-AFL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633897
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-SA2F-760-U-AFL-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (32) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12326.7 lumens
Efficiency: N/A
Efficacy: 99.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G0

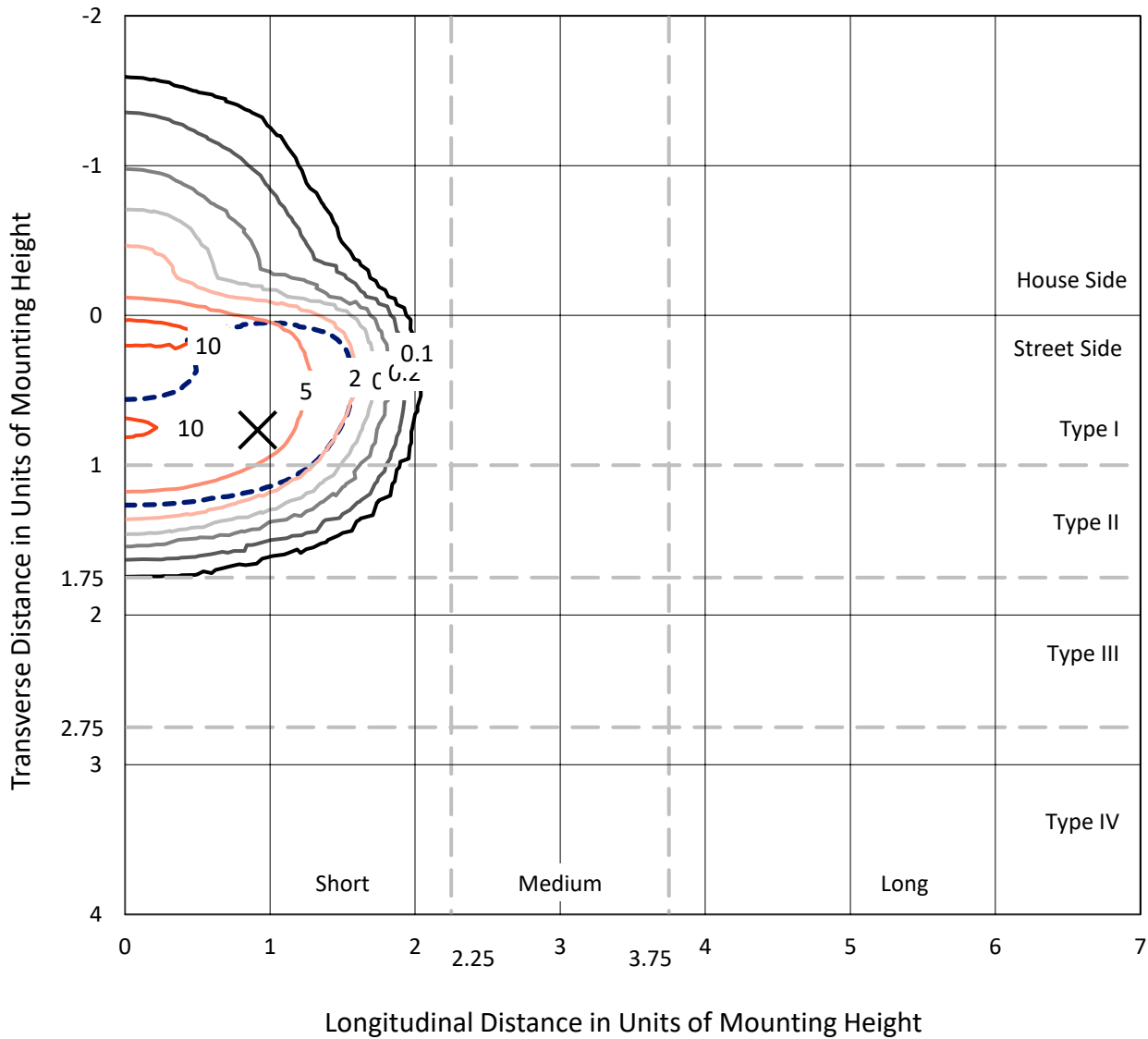
Input Watts (W): 124.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

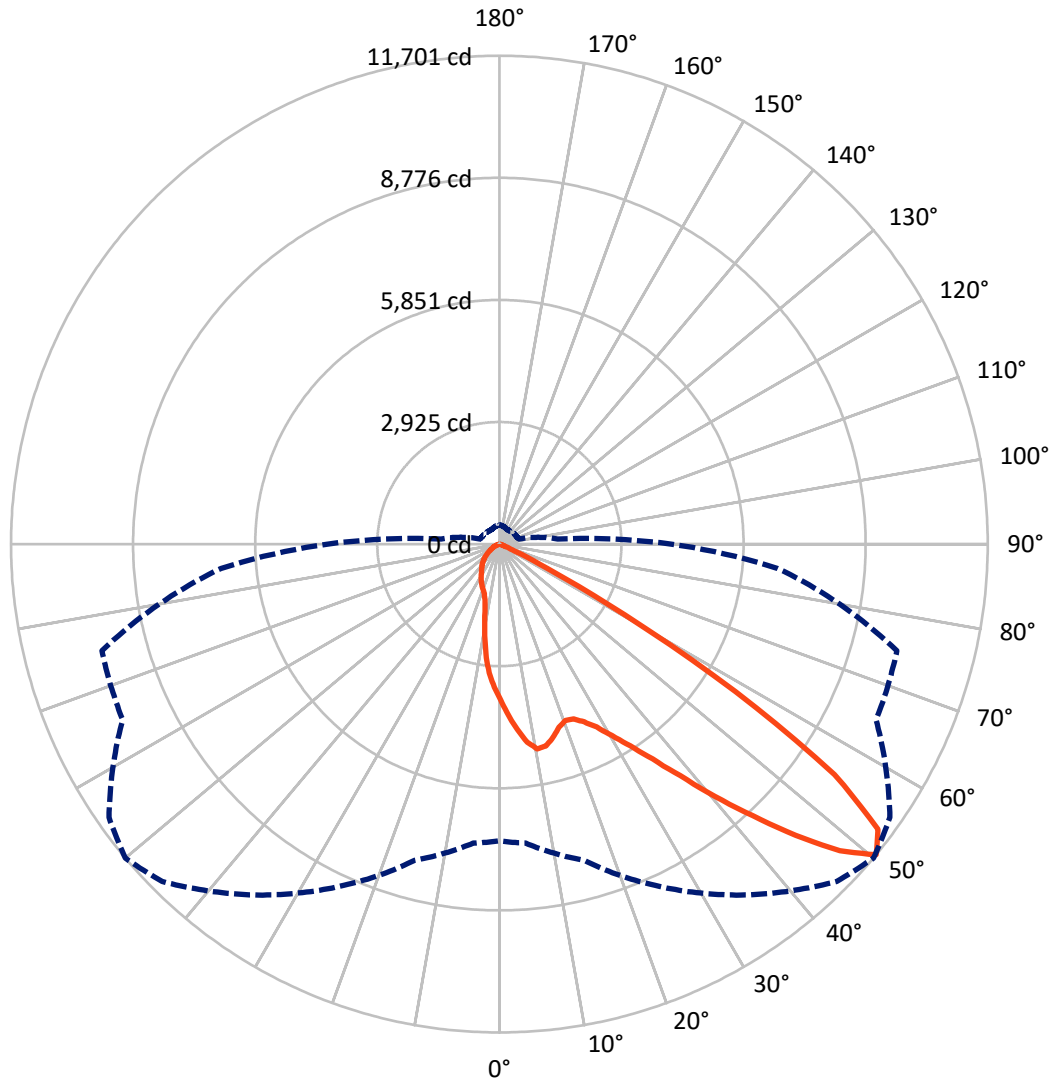
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 12 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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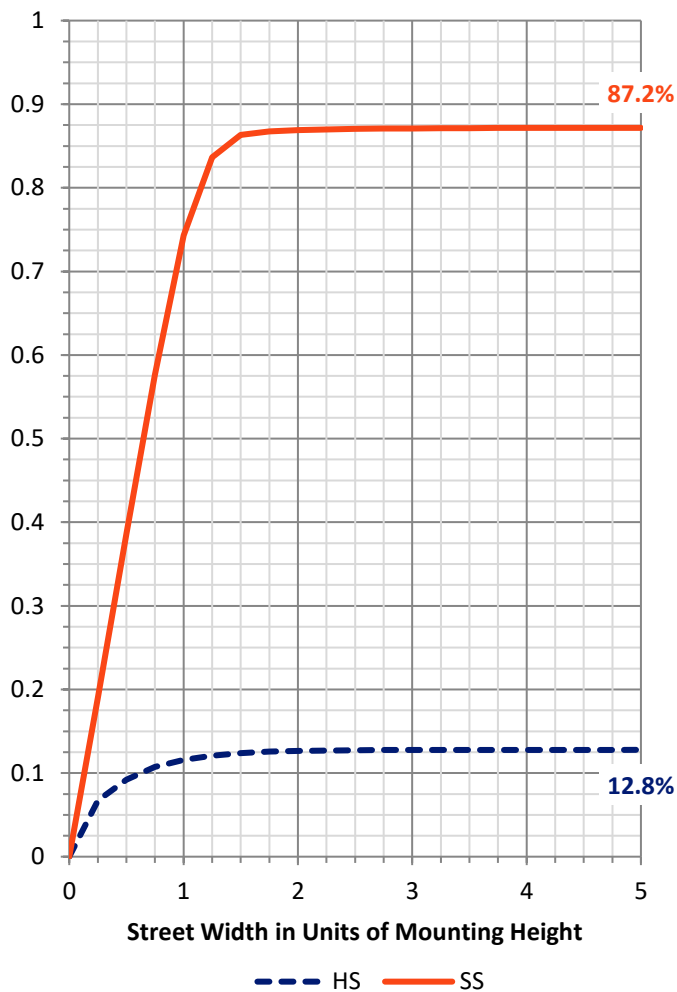
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1583.8	0.0	1583.8
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	10742.9	0.0	10742.9
	% Fixture	87.2	0.0	87.2
Total	Lumens	12326.7	0.0	12326.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	346.4	2.8
10°-20°	893.8	7.3
20°-30°	1475.1	12.0
30°-40°	2434.3	19.7
40°-50°	3851.6	31.2
50°-60°	2916.1	23.7
60°-70°	365.0	3.0
70°-80°	41.3	0.3
80°-90°	3.2	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°	12326.7	100.0
0°-180°	12326.7	100.0

Coefficient of Utilization



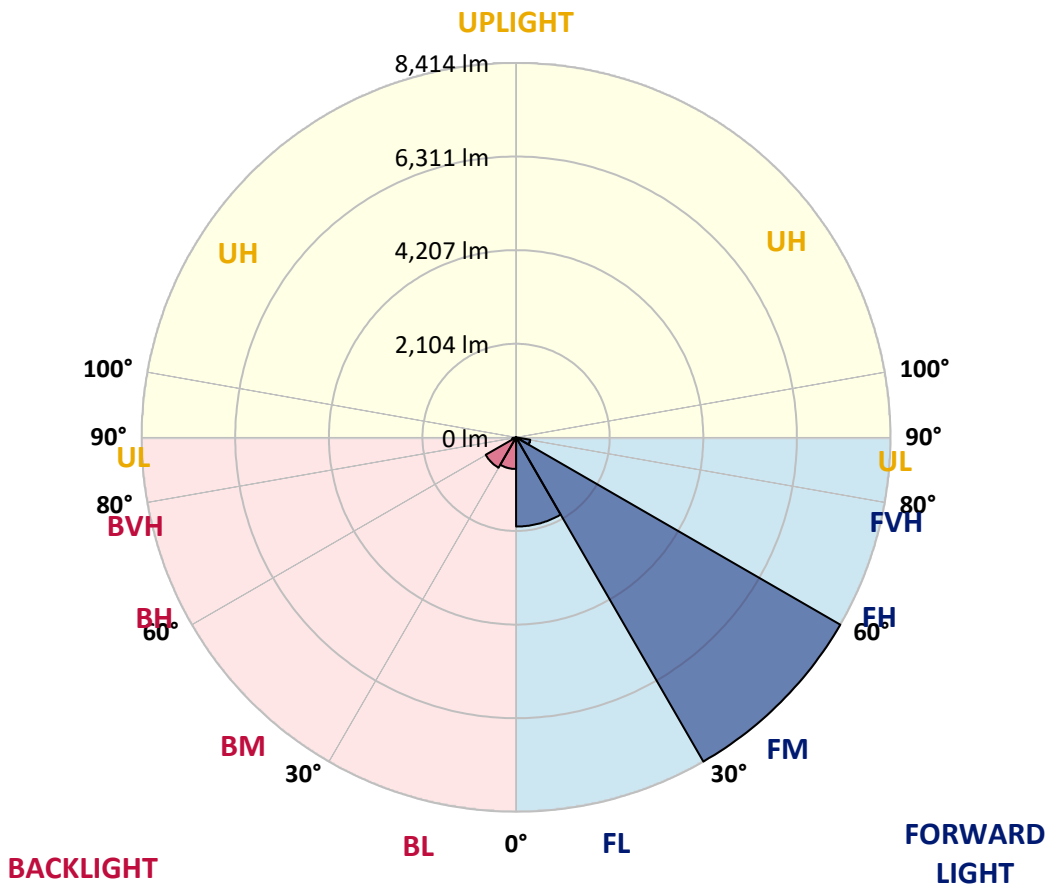
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2004.5	16.3			
FM (30°-60°)	8414.3	68.3			
FH (60°-80°)	322.7	2.6			G0/660
FVH (80°-90°)	1.5	0.0			G0/10
BL (0°-30°)	710.9	5.8	B2/1000		
BM (30°-60°)	787.7	6.4	B1/1000		
BH (60°-80°)	83.6	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°	3734.5	3734.5	3734.5	3734.5	3734.5	3734.5	3734.5	3734.5	3734.5	3734.5	3734.5
2.5°	4255.4	4289.5	4280.1	4235.5	4187.4	4153.4	4100.6	4084.1	3964.5	3881.2	3793.2
5°	4769.3	4779.9	4768.1	4714.2	4629.7	4548.7	4461.9	4411.5	4210.8	4030.2	3846.0
7.5°	4892.5	4879.6	4901.9	4928.9	4917.2	4882.0	4790.4	4735.3	4495.9	4201.5	3922.2
10°	4507.7	4478.3	4561.7	4701.3	4847.9	5013.4	4989.9	4994.6	4774.0	4417.3	4021.9
12.5°	3997.3	3985.6	4047.8	4209.7	4497.1	4872.6	4962.9	5114.3	5028.6	4650.8	4135.8
15°	3773.2	3779.1	3816.6	3918.7	4125.2	4592.2	4809.2	5082.6	5256.2	4877.3	4261.3
17.5°	3807.2	3828.4	3827.2	3861.2	3986.8	4361.0	4614.4	4982.9	5432.2	5137.7	4405.6
20°	4038.4	4059.5	4027.8	4002.0	4044.2	4302.4	4512.4	4882.0	5550.7	5400.5	4558.1
22.5°	4384.5	4409.1	4334.0	4260.1	4233.1	4398.6	4551.1	4840.9	5641.1	5641.1	4694.2
25°	4803.3	4837.4	4721.2	4589.8	4514.7	4601.5	4716.5	4933.6	5733.7	5856.9	4786.9
27.5°	5271.5	5272.6	5172.9	5025.1	4884.3	4894.9	4964.1	5142.4	5835.8	6089.2	4859.7
30°	5798.3	5801.8	5669.2	5492.0	5314.9	5266.8	5325.4	5460.4	6048.2	6381.4	4960.6
32.5°	6478.8	6495.2	6305.1	6044.7	5814.7	5724.4	5758.4	5900.3	6386.1	6747.4	5111.9
35°	7398.6	7416.2	7135.8	6792.0	6426.0	6289.9	6323.9	6467.0	6875.3	7267.2	5353.6
37.5°	8306.7	8330.2	8046.2	7725.9	7223.8	6998.5	7033.7	7169.8	7609.8	7985.2	5740.8
40°	8934.4	8966.1	8878.1	8662.2	8196.4	7900.8	7943.0	7992.3	8418.2	8844.1	6242.9
42.5°	9265.3	9309.9	9347.4	9457.7	9212.5	8964.9	8893.3	8896.9	9240.6	9719.3	6765.0
45°	9285.2	9328.6	9521.0	9946.9	10133.5	10081.9	9951.6	9863.6	9868.3	10302.4	7091.2
47.5°	8639.9	8720.9	9081.1	9915.3	10616.9	11045.1	10979.4	10770.6	10132.3	10341.2	7056.0
50°	7111.2	7190.9	7845.6	9045.9	10264.9	11429.9	11701.0	11420.6	9959.8	9858.9	6693.5
52.5°	5164.7	5172.9	5597.6	6999.7	8838.2	10720.1	11358.4	11331.4	9697.0	9274.7	6198.4
55°	2453.3	2424.0	2901.5	3950.4	6112.7	8670.4	9746.3	10051.4	9323.9	8852.3	5814.7
57.5°	714.5	728.6	941.0	1541.7	3057.5	5541.3	6674.7	7242.6	7653.2	7277.8	4510.0
60°	320.3	321.5	357.8	469.3	1018.4	2577.7	3450.6	4153.4	4575.7	4240.2	2237.4
62.5°	232.3	233.5	247.6	265.2	346.1	872.9	1294.1	1724.7	1756.4	1149.8	566.7
65°	193.6	193.6	195.9	195.9	207.7	312.1	393.0	506.9	427.1	316.8	221.7
67.5°	156.0	157.2	159.6	159.6	156.0	156.0	169.0	185.4	198.3	245.2	204.1
70°	122.0	120.8	120.8	122.0	118.5	100.9	109.1	124.4	136.1	191.2	177.2
72.5°	95.0	96.2	95.0	90.3	82.1	59.8	64.5	81.0	86.8	119.7	119.7
75°	71.6	72.7	68.0	51.6	34.0	18.8	24.6	39.9	50.5	58.7	43.4
77.5°	9.4	9.4	7.0	7.0	5.9	7.0	7.0	9.4	14.1	14.1	10.6
80°	1.2	1.2	1.2	2.3	3.5	4.7	4.7	4.7	4.7	5.9	5.9
82.5°	1.2	1.2	1.2	1.2	3.5	3.5	4.7	4.7	4.7	4.7	4.7
85°	0.0	0.0	0.0	1.2	2.3	3.5	3.5	4.7	4.7	4.7	4.7
87.5°	0.0	0.0	0.0	1.2	2.3	3.5	3.5	3.5	4.7	4.7	4.7
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°	3734.5	3734.5	3734.5	3734.5	3734.5	3734.5	3734.5	3734.5	3734.5	3734.5	3734.5
2.5°	3740.4	3672.3	3590.2	3533.9	3454.1	3401.3	3326.2	3275.8	3232.3	3198.3	3217.1
5°	3741.5	3633.6	3465.8	3322.7	3166.6	3023.5	2869.8	2749.0	2639.8	2590.6	2617.6
7.5°	3765.0	3610.1	3353.2	3098.6	2799.4	2503.7	2226.9	2001.6	1890.1	1837.3	1853.8
10°	3810.8	3599.6	3227.6	2805.3	2319.5	1915.9	1647.3	1494.7	1432.6	1399.7	1405.6
12.5°	3853.0	3592.5	3064.6	2419.3	1830.3	1486.5	1346.9	1325.8	1338.7	1339.9	1338.7
15°	3910.5	3579.6	2862.8	2022.7	1464.2	1284.7	1288.2	1318.7	1349.3	1358.6	1356.3
17.5°	3971.5	3559.7	2602.3	1642.6	1242.5	1226.1	1267.1	1308.2	1338.7	1343.4	1344.6
20°	4034.9	3518.6	2305.5	1341.0	1139.2	1181.5	1227.2	1257.7	1280.0	1287.1	1289.4
22.5°	4064.2	3431.8	1962.9	1125.2	1070.0	1126.3	1160.4	1200.2	1207.3	1181.5	1186.2
25°	4048.9	3285.1	1628.5	979.7	1000.8	1057.1	1107.6	1087.6	1058.3	1039.5	1045.4
27.5°	4000.8	3090.4	1301.2	872.9	926.9	998.4	1004.3	982.0	977.3	962.1	966.8
30°	3949.2	2866.3	1046.6	787.3	851.8	926.9	909.3	917.5	918.7	901.1	906.9
32.5°	3917.5	2631.6	833.0	729.8	803.7	817.8	853.0	869.4	870.6	829.5	836.5
35°	3928.1	2400.5	705.1	682.8	759.1	755.6	804.9	814.2	746.2	689.9	695.7
37.5°	4013.7	2187.0	632.4	646.5	681.7	708.7	746.2	684.0	668.8	642.9	646.5
40°	4173.3	2005.1	589.0	624.2	628.9	672.3	614.8	623.0	624.2	607.8	611.3
42.5°	4359.8	1853.8	563.2	611.3	599.5	606.6	549.1	565.5	583.1	576.1	577.2
45°	4453.7	1705.9	540.9	566.7	570.2	503.3	490.4	508.0	530.3	533.8	535.0
47.5°	4370.4	1565.1	517.4	502.2	525.6	458.7	443.5	449.4	475.2	489.3	491.6
50°	4115.8	1403.2	482.2	444.7	431.8	411.8	397.7	398.9	428.2	452.9	457.6
52.5°	3758.0	1234.3	424.7	376.6	347.3	362.5	366.1	359.0	386.0	410.6	415.3
55°	3410.7	1023.1	336.7	306.2	279.2	312.1	321.5	312.1	320.3	336.7	337.9
57.5°	2401.7	578.4	258.1	253.4	231.1	267.5	282.8	268.7	254.6	265.2	267.5
60°	1113.4	302.7	198.3	198.3	192.4	230.0	255.8	235.8	208.8	213.5	217.1
62.5°	348.5	191.2	145.5	137.3	157.2	195.9	217.1	197.1	165.4	165.4	170.1
65°	197.1	164.3	115.0	105.6	127.9	157.2	170.1	149.0	120.8	118.5	118.5
67.5°	183.0	156.0	102.1	85.6	90.3	100.9	105.6	91.5	83.3	82.1	83.3
70°	151.4	130.2	82.1	58.7	55.1	54.0	56.3	52.8	50.5	51.6	55.1
72.5°	93.9	78.6	51.6	35.2	30.5	29.3	29.3	29.3	28.2	28.2	28.2
75°	34.0	29.3	23.5	17.6	15.3	14.1	14.1	15.3	14.1	12.9	11.7
77.5°	10.6	9.4	9.4	9.4	8.2	7.0	5.9	5.9	4.7	3.5	3.5
80°	5.9	5.9	5.9	5.9	4.7	4.7	3.5	2.3	1.2	1.2	0.0
82.5°	5.9	5.9	5.9	4.7	4.7	4.7	3.5	2.3	1.2	0.0	0.0
85°	4.7	4.7	4.7	4.7	4.7	4.7	3.5	2.3	1.2	0.0	0.0
87.5°	4.7	4.7	4.7	4.7	4.7	4.7	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)