

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: P639507

Luminaire Tested: GWS-SA5C-722-U-AFL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639507
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-SA5C-722-U-AFL-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (80) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13210.3 lumens
Efficiency: N/A
Efficacy: 83.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G0

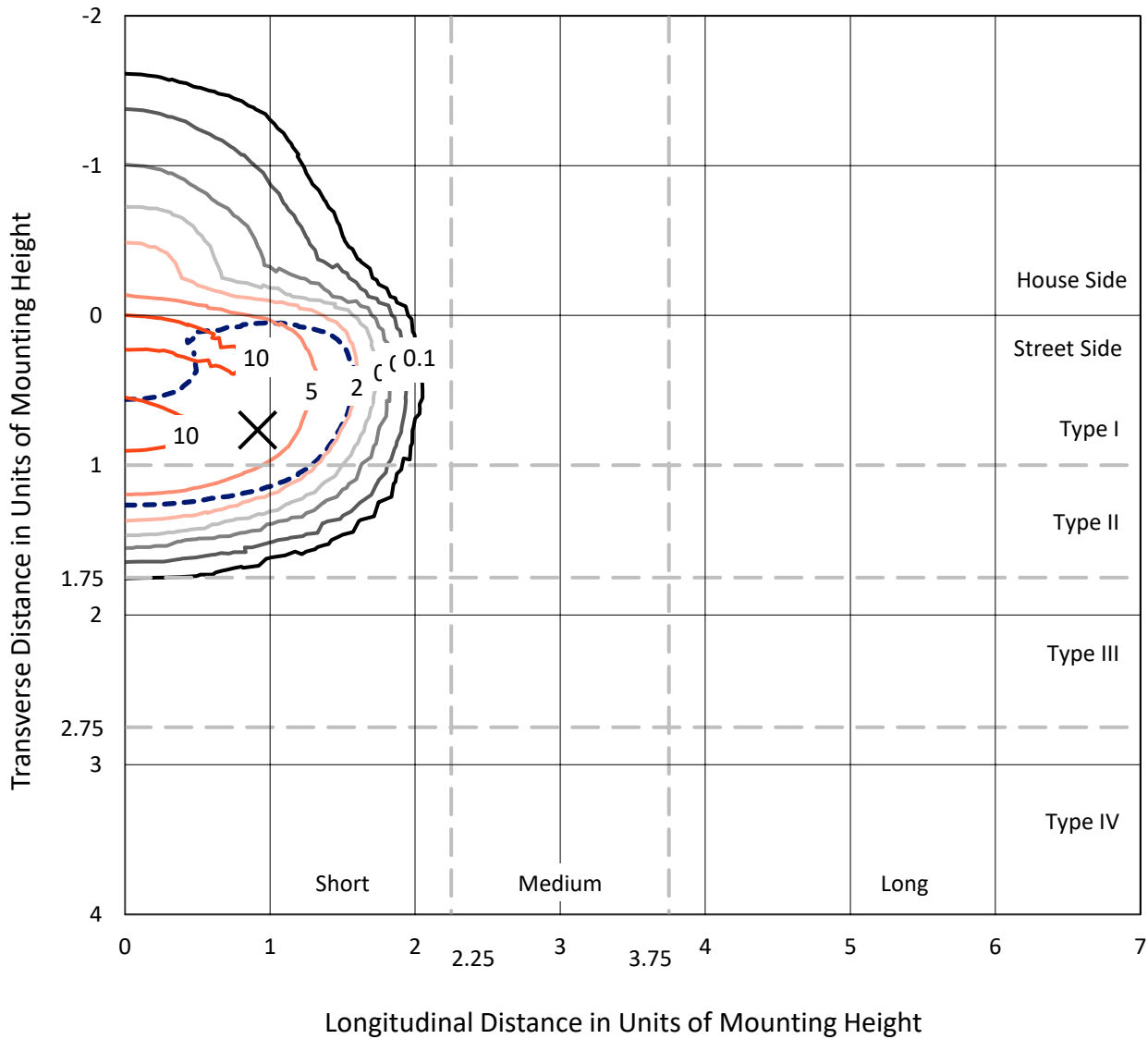
Input Watts (W): 157.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

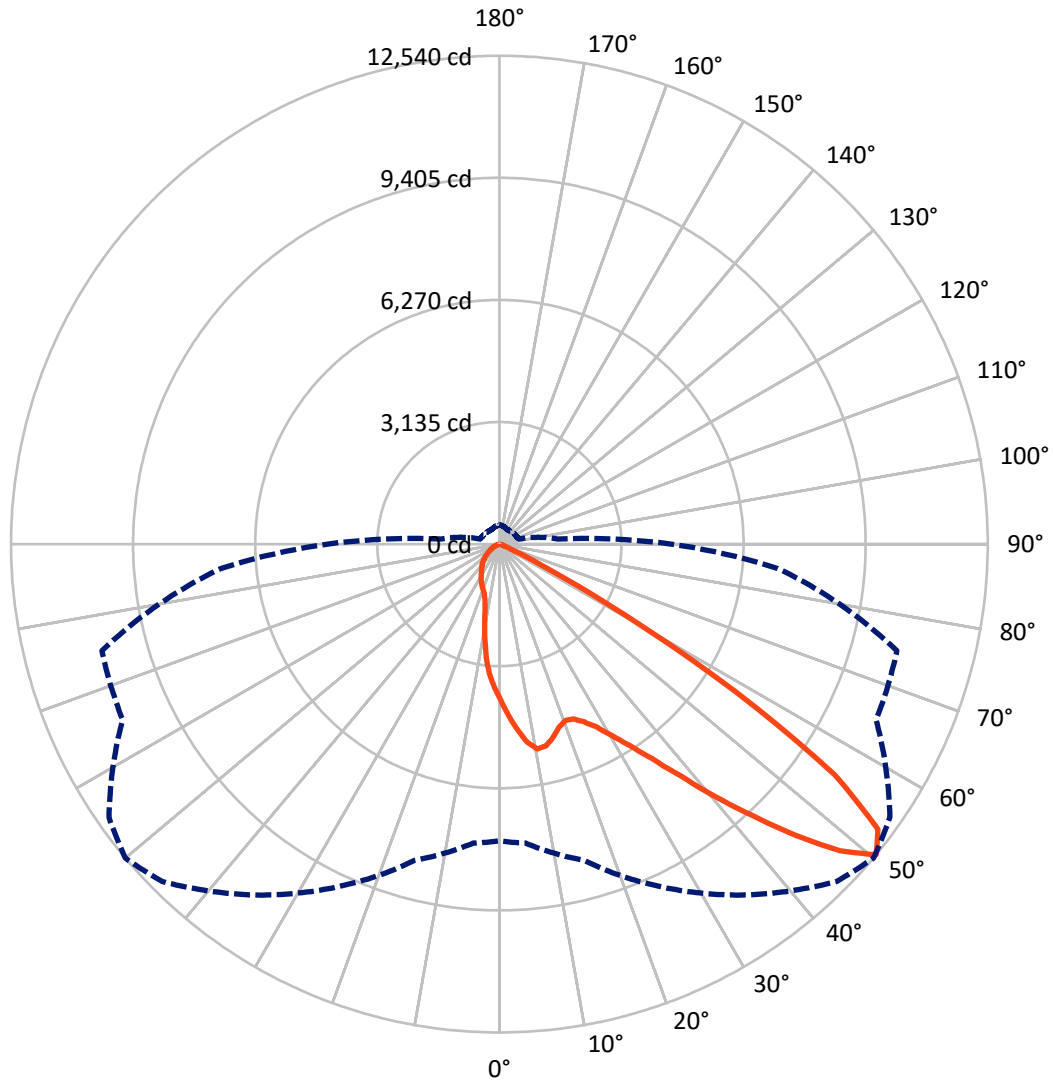
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 12.8 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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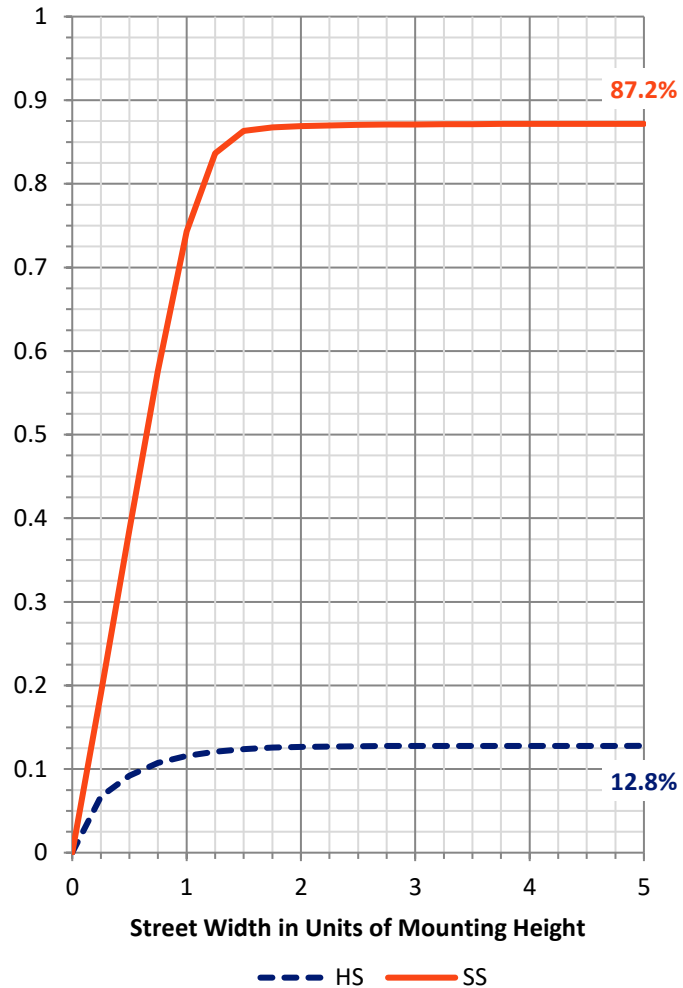
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1697.3	0.0	1697.3
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	11513.0	0.0	11513.0
	% Fixture	87.2	0.0	87.2
Total	Lumens	13210.3	0.0	13210.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	371.3	2.8
10°-20°	957.9	7.3
20°-30°	1580.9	12.0
30°-40°	2608.8	19.7
40°-50°	4127.7	31.2
50°-60°	3125.1	23.7
60°-70°	391.1	3.0
70°-80°	44.2	0.3
80°-90°	3.4	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°	13210.3	100.0
0°-180°	13210.3	100.0

Coefficient of Utilization



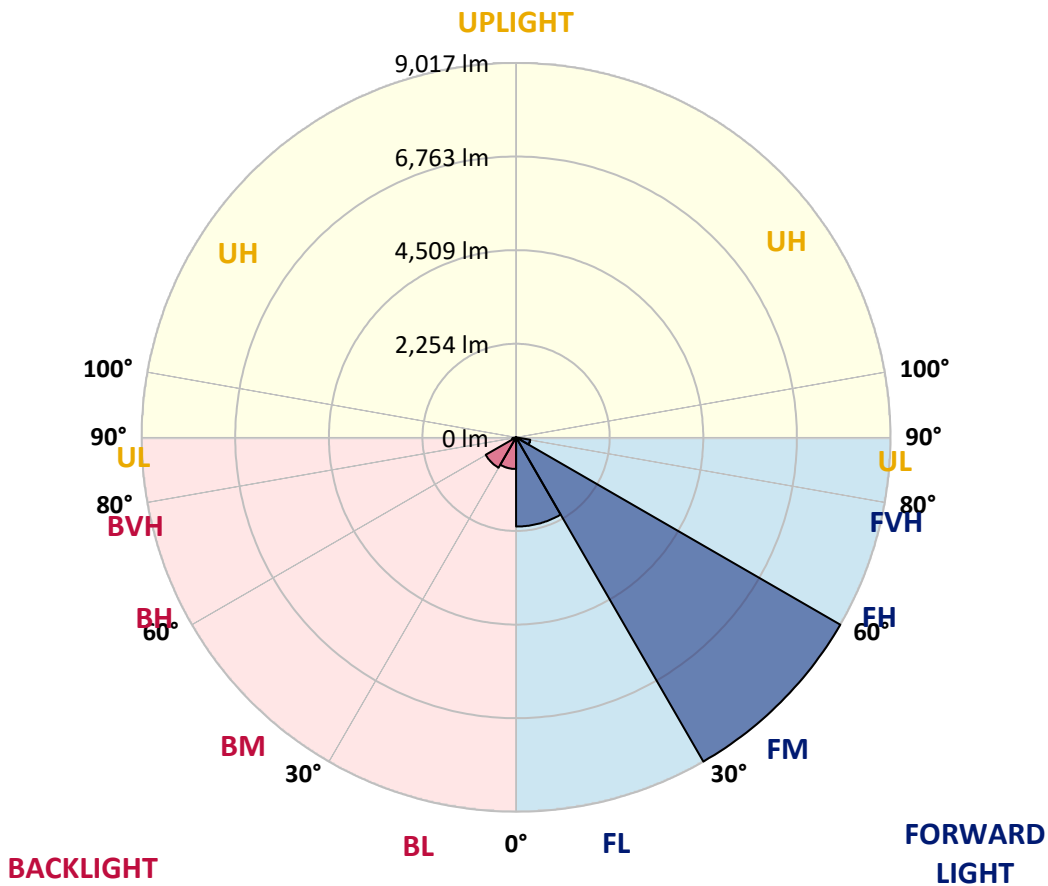
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2148.2	16.3			
FM (30°-60°)	9017.4	68.3			
FH (60°-80°)	345.8	2.6			G0/660
FVH (80°-90°)	1.6	0.0			G0/10
BL (0°-30°)	761.8	5.8	B2/1000		
BM (30°-60°)	844.1	6.4	B1/1000		
BH (60°-80°)	89.6	0.7	B0/110		G0/110
BVH (80°-90°)	1.8	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°	4002.2	4002.2	4002.2	4002.2	4002.2	4002.2	4002.2	4002.2	4002.2	4002.2	4002.2
2.5°	4560.5	4596.9	4586.9	4539.1	4487.5	4451.1	4394.5	4376.9	4248.6	4159.4	4065.1
5°	5111.2	5122.5	5109.9	5052.1	4961.6	4874.8	4781.8	4727.7	4512.7	4319.1	4121.6
7.5°	5243.2	5229.4	5253.3	5282.2	5269.6	5231.9	5133.8	5074.7	4818.2	4502.6	4203.4
10°	4830.8	4799.4	4888.6	5038.3	5195.4	5372.7	5347.6	5352.6	5116.2	4734.0	4310.3
12.5°	4283.8	4271.3	4337.9	4511.4	4819.5	5221.8	5318.7	5480.9	5389.1	4984.2	4432.2
15°	4043.7	4050.0	4090.2	4199.6	4420.9	4921.3	5153.9	5446.9	5633.0	5226.9	4566.8
17.5°	4080.2	4102.8	4101.5	4138.0	4272.5	4673.6	4945.2	5340.0	5821.6	5506.0	4721.4
20°	4327.9	4350.5	4316.5	4288.9	4334.1	4610.8	4835.8	5231.9	5948.6	5787.7	4884.9
22.5°	4698.8	4725.2	4644.7	4565.5	4536.6	4713.9	4877.3	5187.9	6045.4	6045.4	5030.7
25°	5147.7	5184.1	5059.6	4918.8	4838.3	4931.4	5054.6	5287.2	6144.7	6276.8	5130.1
27.5°	5649.3	5650.6	5543.7	5385.3	5234.4	5245.7	5319.9	5511.0	6254.1	6525.7	5208.0
30°	6213.9	6217.7	6075.6	5885.7	5695.9	5644.3	5707.2	5851.8	6481.7	6838.8	5316.1
32.5°	6943.2	6960.8	6757.1	6477.9	6231.5	6134.7	6171.2	6323.3	6843.8	7231.1	5478.3
35°	7928.9	7947.8	7647.3	7278.9	6886.6	6740.7	6777.2	6930.6	7368.2	7788.1	5737.4
37.5°	8902.2	8927.3	8623.0	8279.8	7741.6	7500.2	7537.9	7683.8	8155.3	8557.6	6152.3
40°	9574.8	9608.8	9514.5	9283.1	8784.0	8467.1	8512.4	8565.2	9021.6	9478.0	6690.4
42.5°	9929.4	9977.2	10017.4	10135.6	9872.8	9607.5	9530.8	9534.6	9903.0	10416.0	7250.0
45°	9950.8	9997.3	10203.5	10659.9	10859.9	10804.5	10665.0	10570.7	10575.7	11040.9	7599.5
47.5°	9259.2	9346.0	9732.0	10626.0	11377.9	11836.8	11766.4	11542.6	10858.6	11082.4	7561.8
50°	7620.9	7706.4	8408.0	9694.3	11000.7	12249.3	12539.7	12239.2	10673.8	10565.6	7173.3
52.5°	5534.9	5543.7	5998.9	7501.4	9471.7	11488.6	12172.6	12143.6	10392.1	9939.5	6642.7
55°	2629.2	2597.7	3109.5	4233.6	6550.9	9291.9	10444.9	10771.9	9992.3	9486.8	6231.5
57.5°	765.7	780.8	1008.4	1652.2	3276.7	5938.5	7153.2	7761.7	8201.8	7799.4	4833.3
60°	343.3	344.5	383.5	502.9	1091.4	2762.4	3697.9	4451.1	4903.7	4544.1	2397.8
62.5°	249.0	250.2	265.3	284.2	370.9	935.5	1386.9	1848.3	1882.3	1232.2	607.3
65°	207.5	207.5	210.0	210.0	222.6	334.5	421.2	543.2	457.7	339.5	237.6
67.5°	167.2	168.5	171.0	171.0	167.2	167.2	181.1	198.7	212.5	262.8	218.8
70°	130.8	129.5	129.5	130.8	127.0	108.1	116.9	133.3	145.9	205.0	189.9
72.5°	101.8	103.1	101.8	96.8	88.0	64.1	69.2	86.8	93.0	128.3	128.3
75°	76.7	78.0	72.9	55.3	36.5	20.1	26.4	42.8	54.1	62.9	46.5
77.5°	10.1	10.1	7.5	7.5	6.3	7.5	7.5	10.1	15.1	15.1	11.3
80°	1.3	1.3	1.3	2.5	3.8	5.0	5.0	5.0	5.0	6.3	6.3
82.5°	1.3	1.3	1.3	1.3	3.8	3.8	5.0	5.0	5.0	5.0	5.0
85°	0.0	0.0	0.0	1.3	2.5	3.8	3.8	5.0	5.0	5.0	5.0
87.5°	0.0	0.0	0.0	1.3	2.5	3.8	3.8	3.8	5.0	5.0	5.0
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°	4002.2	4002.2	4002.2	4002.2	4002.2	4002.2	4002.2	4002.2	4002.2	4002.2	4002.2
2.5°	4008.5	3935.6	3847.5	3787.2	3701.7	3645.1	3564.6	3510.6	3464.0	3427.6	3447.7
5°	4009.7	3894.1	3714.3	3560.9	3393.6	3240.2	3075.5	2946.0	2829.1	2776.3	2805.2
7.5°	4034.9	3868.9	3593.6	3320.7	3000.1	2683.2	2386.5	2145.1	2025.6	1969.0	1986.6
10°	4083.9	3857.6	3459.0	3006.4	2485.8	2053.3	1765.3	1601.9	1535.2	1500.0	1506.3
12.5°	4129.2	3850.1	3284.2	2592.7	1961.5	1593.1	1443.5	1420.8	1434.7	1435.9	1434.7
15°	4190.8	3836.2	3068.0	2167.7	1569.2	1376.8	1380.6	1413.3	1446.0	1456.0	1453.5
17.5°	4256.2	3814.8	2788.8	1760.3	1331.6	1313.9	1358.0	1402.0	1434.7	1439.7	1440.9
20°	4324.1	3770.8	2470.7	1437.2	1220.9	1266.2	1315.2	1347.9	1371.8	1379.3	1381.8
22.5°	4355.5	3677.8	2103.6	1205.8	1146.7	1207.1	1243.5	1286.3	1293.8	1266.2	1271.2
25°	4339.2	3520.6	1745.2	1049.9	1072.5	1132.9	1187.0	1165.6	1134.1	1114.0	1120.3
27.5°	4287.6	3311.9	1394.4	935.5	993.3	1070.0	1076.3	1052.4	1047.4	1031.0	1036.1
30°	4232.3	3071.7	1121.6	843.7	912.8	993.3	974.5	983.3	984.5	965.7	971.9
32.5°	4198.3	2820.3	892.7	782.1	861.3	876.4	914.1	931.7	933.0	889.0	896.5
35°	4209.7	2572.6	755.7	731.8	813.5	809.7	862.6	872.6	799.7	739.3	745.6
37.5°	4301.4	2343.7	677.7	692.8	730.5	759.4	799.7	733.0	716.7	689.0	692.8
40°	4472.5	2148.8	631.2	668.9	673.9	720.5	658.9	667.7	668.9	651.3	655.1
42.5°	4672.4	1986.6	603.5	655.1	642.5	650.1	588.4	606.1	624.9	617.4	618.6
45°	4773.0	1828.2	579.6	607.3	611.1	539.4	525.6	544.4	568.3	572.1	573.4
47.5°	4683.7	1677.3	554.5	538.2	563.3	491.6	475.3	481.6	509.2	524.3	526.8
50°	4410.8	1503.8	516.8	476.5	462.7	441.3	426.2	427.5	458.9	485.3	490.4
52.5°	4027.3	1322.7	455.2	403.6	372.2	388.5	392.3	384.8	413.7	440.1	445.1
55°	3655.2	1096.4	360.9	328.2	299.3	334.5	344.5	334.5	343.3	360.9	362.1
57.5°	2573.8	619.9	276.6	271.6	247.7	286.7	303.0	287.9	272.8	284.2	286.7
60°	1193.2	324.4	212.5	212.5	206.2	246.4	274.1	252.7	223.8	228.8	232.6
62.5°	373.4	205.0	155.9	147.1	168.5	210.0	232.6	211.2	177.3	177.3	182.3
65°	211.2	176.0	123.2	113.2	137.1	168.5	182.3	159.7	129.5	127.0	127.0
67.5°	196.1	167.2	109.4	91.8	96.8	108.1	113.2	98.1	89.3	88.0	89.3
70°	162.2	139.6	88.0	62.9	59.1	57.8	60.4	56.6	54.1	55.3	59.1
72.5°	100.6	84.2	55.3	37.7	32.7	31.4	31.4	31.4	30.2	30.2	30.2
75°	36.5	31.4	25.1	18.9	16.3	15.1	15.1	16.3	15.1	13.8	12.6
77.5°	11.3	10.1	10.1	10.1	8.8	7.5	6.3	6.3	5.0	3.8	3.8
80°	6.3	6.3	6.3	6.3	5.0	5.0	3.8	2.5	1.3	1.3	0.0
82.5°	6.3	6.3	6.3	5.0	5.0	5.0	3.8	2.5	1.3	0.0	0.0
85°	5.0	5.0	5.0	5.0	5.0	5.0	3.8	2.5	1.3	0.0	0.0
87.5°	5.0	5.0	5.0	5.0	5.0	5.0	3.8	2.5	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)