

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: P633909

Luminaire Tested: GWS-SA2F-760-U-SL3-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633909
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-33)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2F-760-U-SL3-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (32) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13706.5 lumens
Efficiency: N/A
Efficacy: 110.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

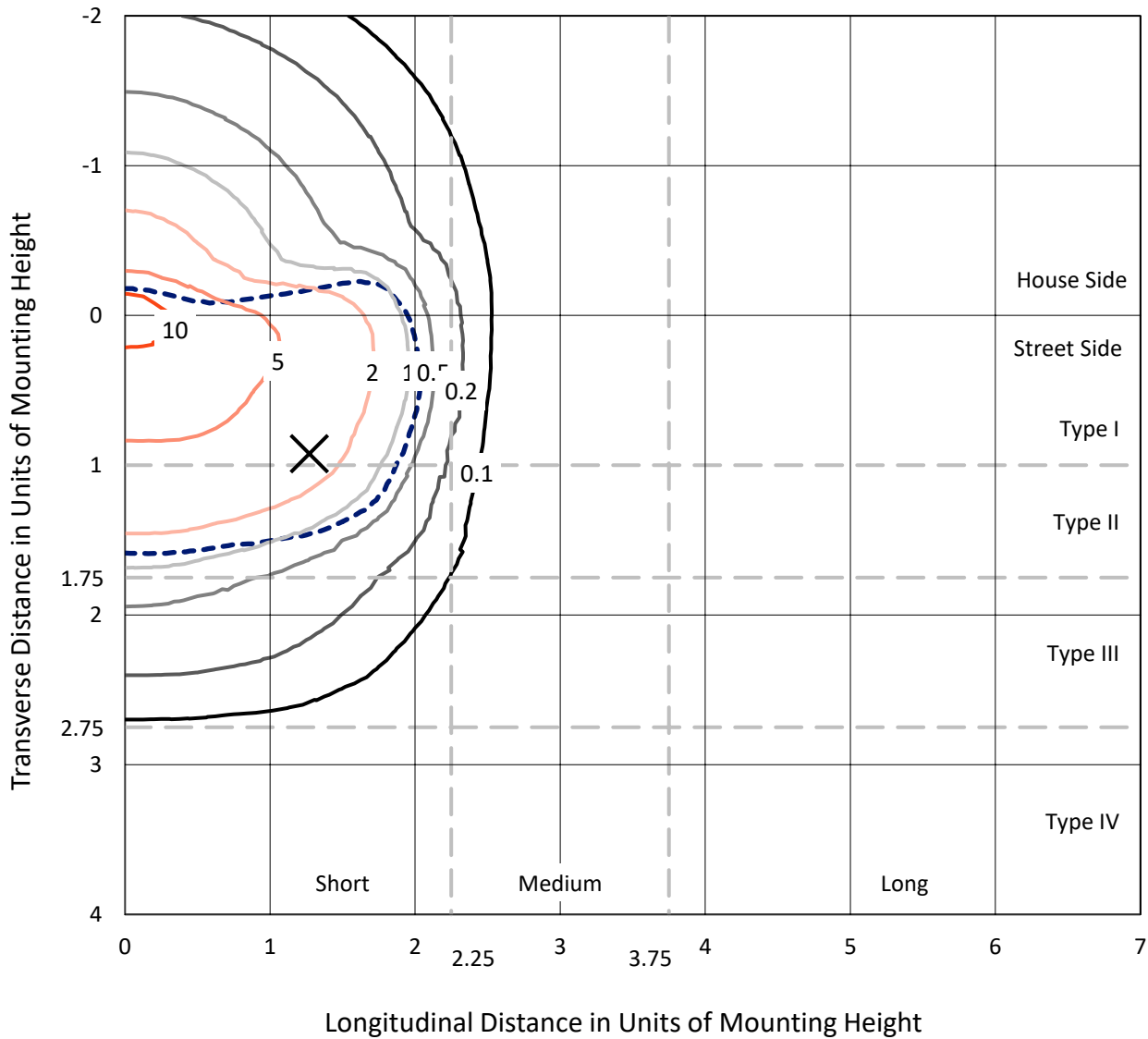
Input Watts (W): 124.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

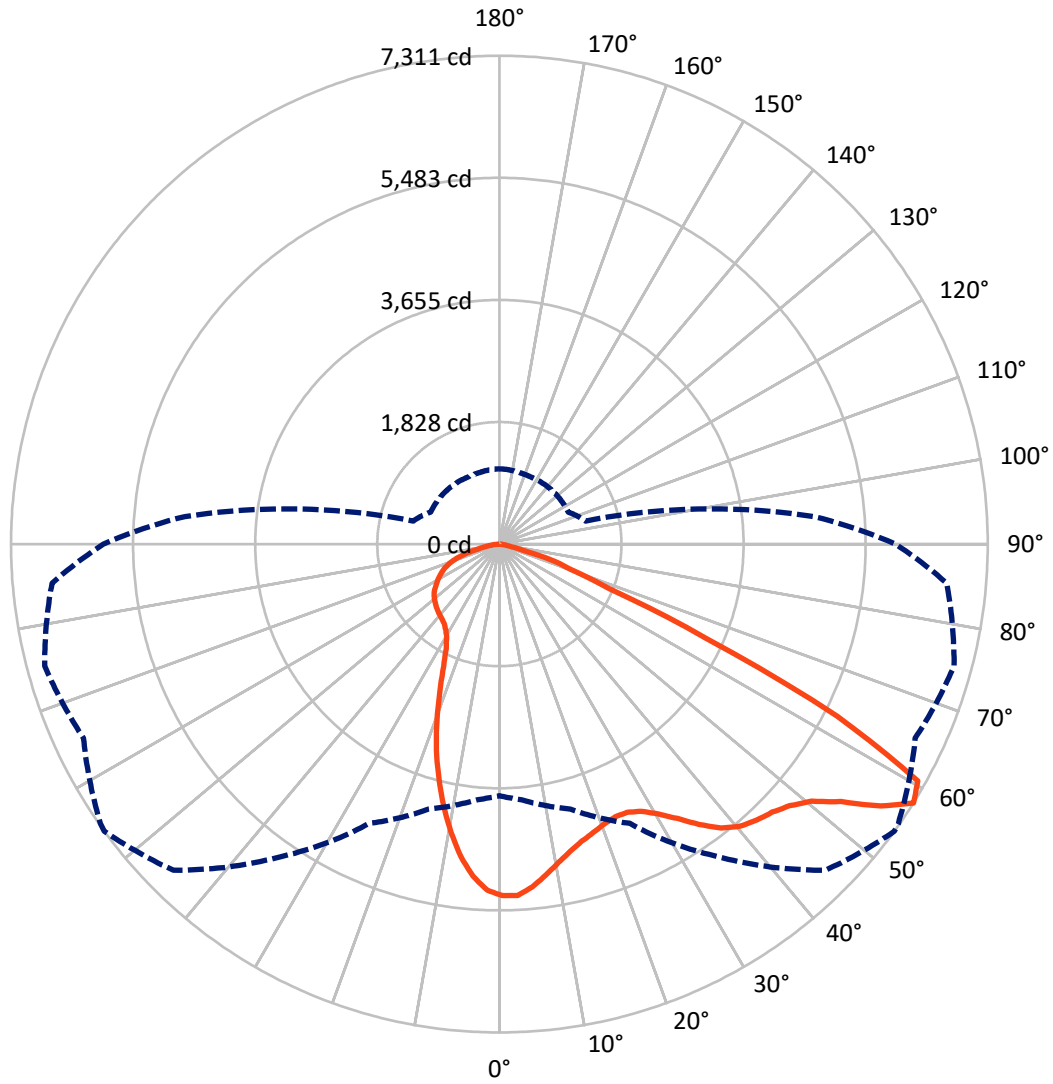
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 13.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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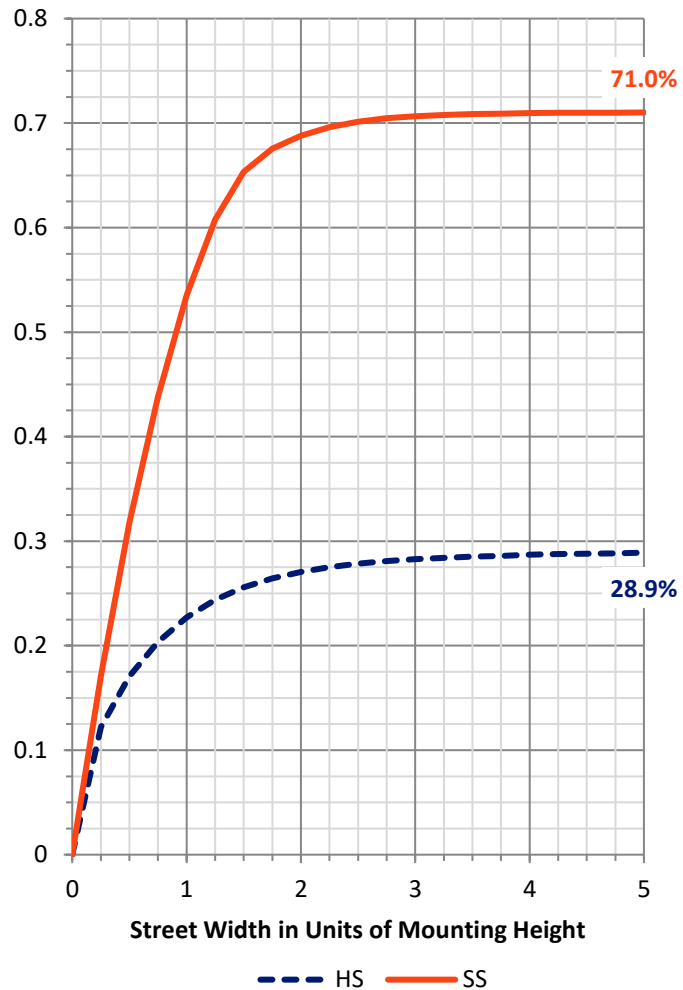
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3984.6	0.0	3984.6
	% Fixture	29.1	0.0	29.1
Street Side	Lumens	9721.9	0.0	9721.9
	% Fixture	70.9	0.0	70.9
Total	Lumens	13706.5	0.0	13706.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	462.5	3.4
10°-20°	1103.7	8.1
20°-30°	1527.3	11.1
30°-40°	2122.2	15.5
40°-50°	2802.8	20.4
50°-60°	3330.8	24.3
60°-70°	1845.3	13.5
70°-80°	459.5	3.4
80°-90°	52.3	0.4
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°	13706.5	100.0
0°-180°	13706.5	100.0

Coefficient of Utilization



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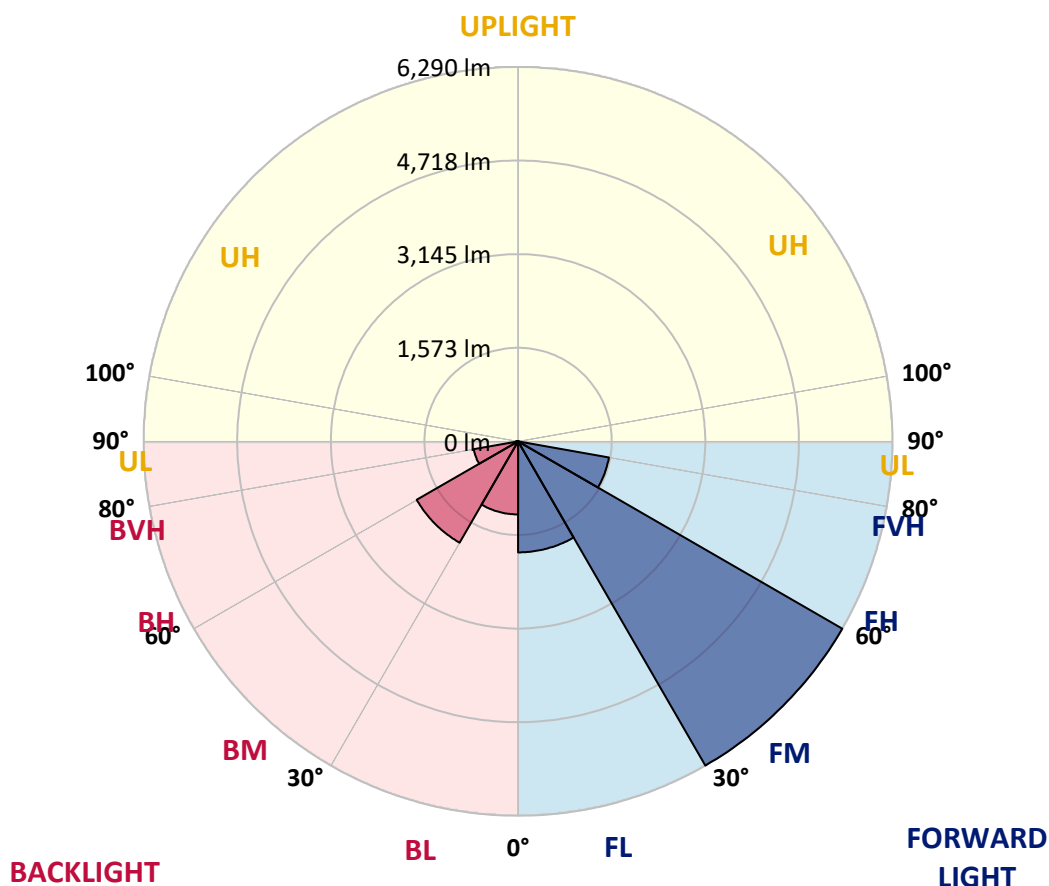
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1865.7	13.6			
FM (30°-60°)	6290.1	45.9			
FH (60°-80°)	1549.7	11.3			G1/1800
FVH (80°-90°)	16.4	0.1			G1/100
BL (0°-30°)	1227.9	9.0	B3/2500		
BM (30°-60°)	1965.7	14.3	B2/2500		
BH (60°-80°)	755.1	5.5	B2/1000		G2/1000
BVH (80°-90°)	35.9	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	5262.2	5262.2	5262.2	5262.2	5262.2	5262.2	5262.2	5262.2	5262.2	5262.2	5262.2
2.5°	5163.7	5174.2	5181.3	5205.9	5227.0	5245.8	5265.8	5265.8	5264.6	5261.1	5254.0
5°	4959.5	4971.3	4987.7	5021.7	5067.5	5100.3	5154.3	5159.0	5182.5	5191.8	5187.1
7.5°	4722.5	4726.0	4747.2	4791.7	4864.5	4923.2	5000.6	5010.0	5066.3	5099.1	5093.3
10°	4463.2	4451.5	4489.0	4554.7	4649.8	4748.3	4848.1	4856.3	4946.6	5008.8	5004.1
12.5°	4226.2	4227.4	4264.9	4344.7	4463.2	4585.2	4719.0	4737.8	4849.2	4929.0	4920.8
15°	4027.9	4032.6	4078.4	4168.7	4303.7	4449.1	4615.8	4633.3	4774.1	4879.7	4856.3
17.5°	3869.5	3874.2	3914.1	4017.4	4161.7	4337.7	4540.7	4558.3	4733.1	4858.6	4810.5
20°	3760.4	3758.1	3796.8	3895.3	4044.4	4235.6	4475.0	4500.8	4720.2	4866.8	4780.0
22.5°	3715.8	3714.7	3742.8	3823.8	3963.4	4157.0	4435.1	4470.3	4734.3	4903.2	4761.2
25°	3738.1	3733.4	3758.1	3817.9	3929.4	4126.5	4446.8	4484.3	4794.1	4978.3	4764.8
27.5°	3807.3	3801.5	3822.6	3876.6	3961.1	4158.2	4528.9	4572.3	4920.8	5115.6	4811.7
30°	3912.9	3909.4	3930.5	3982.2	4056.1	4263.8	4686.1	4735.4	5116.7	5329.1	4913.8
32.5°	4036.1	4030.3	4067.8	4127.7	4213.3	4456.2	4897.3	4961.9	5349.1	5603.7	5085.1
35°	4174.6	4169.9	4221.5	4308.3	4431.5	4723.7	5153.1	5223.5	5586.1	5914.6	5312.7
37.5°	4309.5	4309.5	4409.2	4538.3	4693.2	5014.7	5393.6	5438.2	5750.3	6190.3	5556.7
40°	4429.2	4436.2	4586.4	4780.0	4977.1	5277.5	5552.0	5589.6	5823.1	6380.4	5769.1
42.5°	4561.8	4567.6	4742.5	4995.9	5230.6	5489.9	5648.3	5667.0	5837.2	6475.4	5919.3
45°	4667.4	4675.6	4892.6	5163.7	5451.1	5649.4	5724.5	5740.9	5857.1	6527.1	6028.4
47.5°	4722.5	4734.3	4983.0	5298.6	5600.1	5792.6	5850.1	5857.1	5939.2	6617.4	6159.8
50°	4713.1	4736.6	5017.0	5365.5	5710.4	5936.9	6051.9	6063.6	6107.0	6750.0	6313.5
52.5°	4796.4	4807.0	5089.8	5445.3	5867.7	6203.2	6402.7	6419.1	6399.2	6849.7	6405.0
55°	4658.0	4708.4	4999.4	5433.5	6107.0	6615.0	6922.5	6914.2	6664.3	6961.2	6557.6
57.5°	3767.5	3841.4	4107.7	4612.2	5712.8	6903.7	7310.8	7290.9	6869.7	7046.8	6723.0
60°	2608.2	2620.0	2860.5	3218.4	4409.2	6098.8	7197.0	7240.4	6907.2	6938.9	6416.8
62.5°	2086.1	2082.6	2104.9	2114.3	2804.2	4287.2	5681.1	5839.5	5738.6	5406.6	4547.7
65°	1781.1	1794.0	1859.7	1825.6	1830.3	2414.6	3394.3	3416.6	3346.2	3226.6	2405.3
67.5°	1393.9	1416.2	1532.3	1664.9	1622.7	1554.6	1761.1	1750.6	1379.8	1067.7	882.3
70°	872.9	887.0	1011.4	1307.1	1412.6	1276.5	1132.2	1127.5	739.2	607.8	666.4
72.5°	509.2	511.6	546.8	728.6	937.5	872.9	833.0	802.5	475.2	484.6	531.5
75°	280.4	280.4	279.2	314.4	369.6	327.3	316.8	308.6	318.0	360.2	395.4
77.5°	58.7	59.8	63.4	83.3	107.9	131.4	165.4	166.6	207.7	240.5	268.7
80°	27.0	28.2	35.2	44.6	57.5	76.3	100.9	102.1	125.5	151.4	170.1
82.5°	14.1	15.3	18.8	23.5	30.5	39.9	56.3	56.3	75.1	89.2	100.9
85°	4.7	4.7	7.0	9.4	12.9	16.4	22.3	22.3	32.9	43.4	50.5
87.5°	0.0	0.0	0.0	0.0	1.2	2.3	4.7	4.7	5.9	7.0	11.7
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°	5262.2	5262.2	5262.2	5262.2	5262.2	5262.2	5262.2	5262.2	5262.2	5262.2	5262.2
2.5°	5238.8	5202.4	5203.6	5210.6	5188.3	5154.3	5132.0	5103.8	5086.2	5082.7	5095.6
5°	5163.7	5121.4	5092.1	5061.6	4998.2	4923.2	4864.5	4816.4	4784.7	4773.0	4758.9
7.5°	5060.4	5005.3	4931.4	4845.7	4730.7	4597.0	4503.1	4415.1	4354.1	4336.5	4328.3
10°	4957.2	4877.4	4746.0	4586.4	4395.2	4214.5	4044.4	3914.1	3810.9	3752.2	3771.0
12.5°	4850.4	4751.9	4546.5	4301.3	4035.0	3762.8	3539.8	3324.0	3157.3	3074.0	3049.4
15°	4756.5	4622.8	4336.5	4004.5	3650.1	3307.5	2984.9	2661.0	2449.8	2334.9	2303.2
17.5°	4676.8	4503.1	4114.8	3701.8	3278.2	2790.1	2393.5	2093.2	1948.8	1885.5	1880.8
20°	4598.2	4385.8	3895.3	3375.6	2848.8	2302.0	1947.7	1806.9	1755.3	1733.0	1731.8
22.5°	4527.8	4262.6	3664.2	3049.4	2421.7	1934.8	1740.0	1679.0	1664.9	1664.9	1662.6
25°	4467.9	4139.4	3427.2	2703.3	2035.7	1722.4	1632.1	1606.2	1612.1	1622.7	1623.8
27.5°	4443.3	4043.2	3198.4	2347.8	1769.3	1599.2	1558.1	1554.6	1571.0	1587.5	1589.8
30°	4469.1	3977.5	2963.7	2007.5	1609.8	1524.1	1505.3	1512.4	1532.3	1548.8	1548.8
32.5°	4548.9	3944.6	2724.4	1758.8	1517.1	1471.3	1465.4	1472.5	1487.7	1497.1	1498.3
35°	4683.8	3957.5	2476.8	1591.0	1457.2	1432.6	1431.4	1436.1	1442.0	1447.8	1449.0
37.5°	4853.9	4015.0	2211.7	1493.6	1418.5	1404.4	1402.1	1400.9	1402.1	1402.1	1403.3
40°	5020.5	4101.8	1974.7	1436.1	1391.5	1379.8	1373.9	1365.7	1364.5	1362.2	1361.0
42.5°	5143.7	4168.7	1785.8	1395.1	1366.9	1352.8	1345.8	1332.9	1331.7	1330.5	1329.3
45°	5236.4	4225.0	1628.5	1355.2	1341.1	1328.2	1312.9	1301.2	1303.5	1305.9	1305.9
47.5°	5340.8	4274.3	1513.6	1317.6	1309.4	1296.5	1277.7	1269.5	1277.7	1285.9	1285.9
50°	5467.6	4343.5	1419.7	1280.1	1276.5	1261.3	1244.9	1241.3	1250.7	1262.5	1262.5
52.5°	5560.3	4403.4	1352.8	1242.5	1242.5	1222.6	1208.5	1207.3	1217.9	1229.6	1230.8
55°	5733.9	4543.0	1329.3	1199.1	1194.4	1179.2	1168.6	1160.4	1173.3	1183.9	1183.9
57.5°	5929.8	4728.4	1335.2	1136.9	1131.1	1126.4	1118.2	1108.8	1112.3	1124.0	1125.2
60°	5514.5	4369.4	1270.7	1074.7	1071.2	1068.9	1058.3	1041.9	1046.6	1056.0	1057.1
62.5°	3851.9	2903.9	1027.8	997.3	1009.0	1007.9	993.8	975.0	976.2	989.1	989.1
65°	1999.3	1571.0	902.3	926.9	944.5	937.5	914.0	897.6	895.2	911.7	908.1
67.5°	862.4	857.7	821.3	853.0	871.8	856.5	831.9	804.9	807.2	813.1	808.4
70°	694.6	715.7	731.0	765.0	780.2	752.1	725.1	709.8	696.9	695.8	687.6
72.5°	555.0	584.3	618.3	653.5	658.2	630.1	596.0	582.0	562.0	560.8	552.6
75°	417.7	442.3	469.3	497.5	497.5	470.5	448.2	441.2	417.7	410.7	403.6
77.5°	285.1	300.4	321.5	328.5	335.6	325.0	302.7	291.0	264.0	257.0	247.6
80°	179.5	190.1	203.0	207.7	214.7	201.8	184.2	171.3	152.5	146.7	142.0
82.5°	107.9	115.0	123.2	125.5	131.4	122.0	105.6	96.2	85.7	81.0	77.4
85°	55.1	58.7	63.4	64.5	63.4	54.0	48.1	43.4	36.4	35.2	32.9
87.5°	14.1	16.4	17.6	16.4	15.3	11.7	8.2	5.9	2.3	2.3	1.2
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)