

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: P641008

Luminaire Tested: GWS-SA5F-722-U-SL4-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641008
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-35)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5F-722-U-SL4-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS
Light Source: (80) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29526.6 lumens
Efficiency: N/A
Efficacy: 95.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

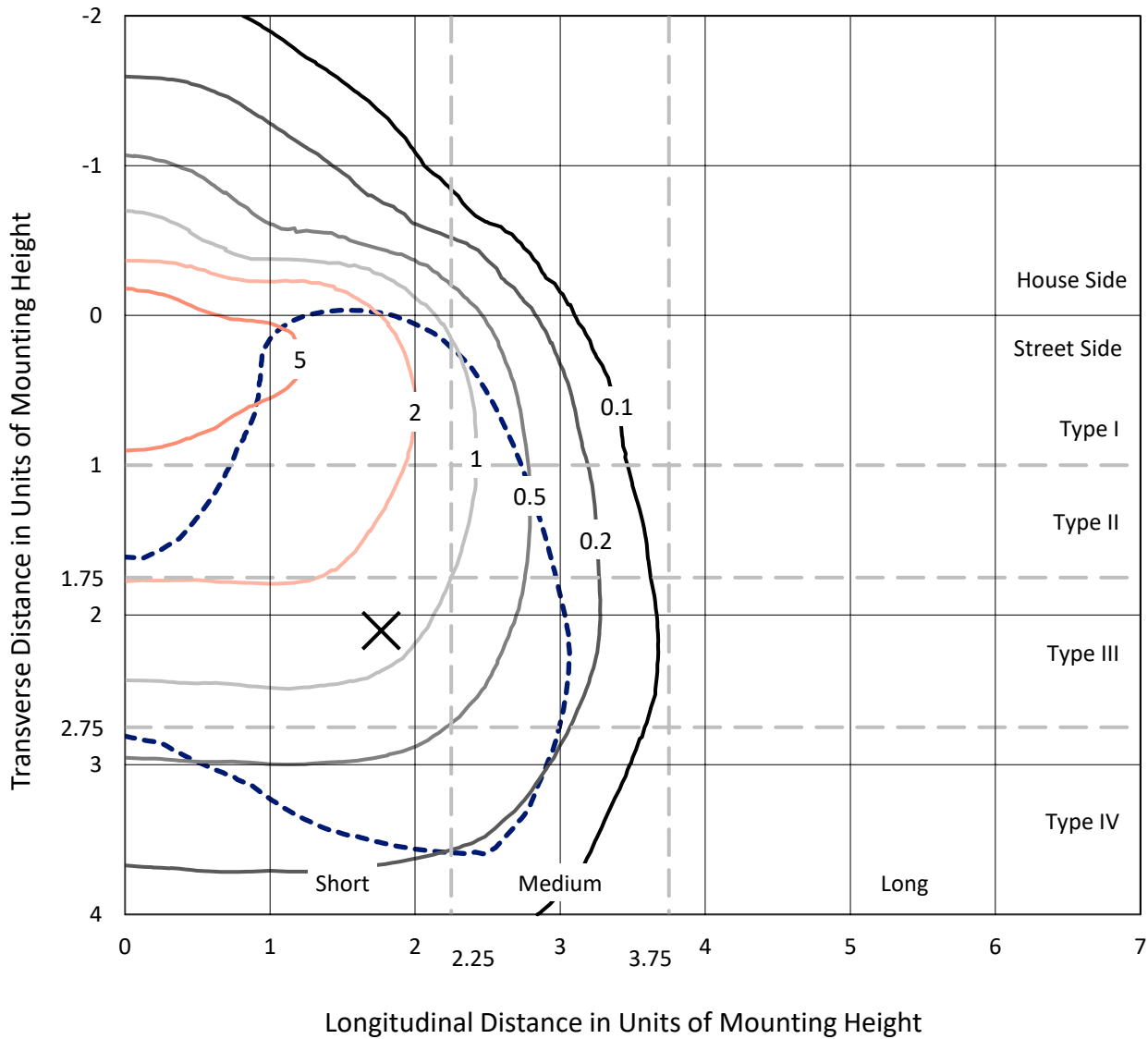
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

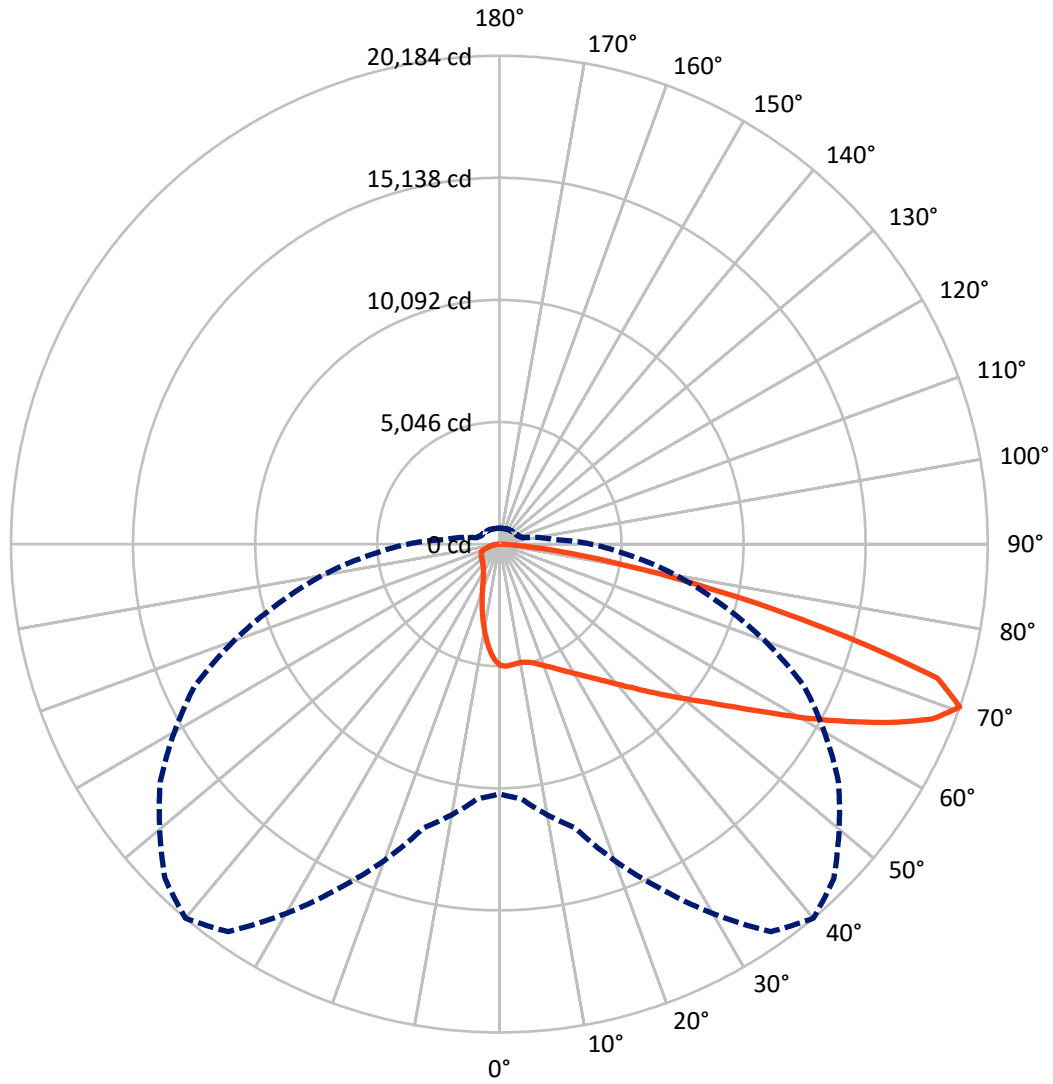
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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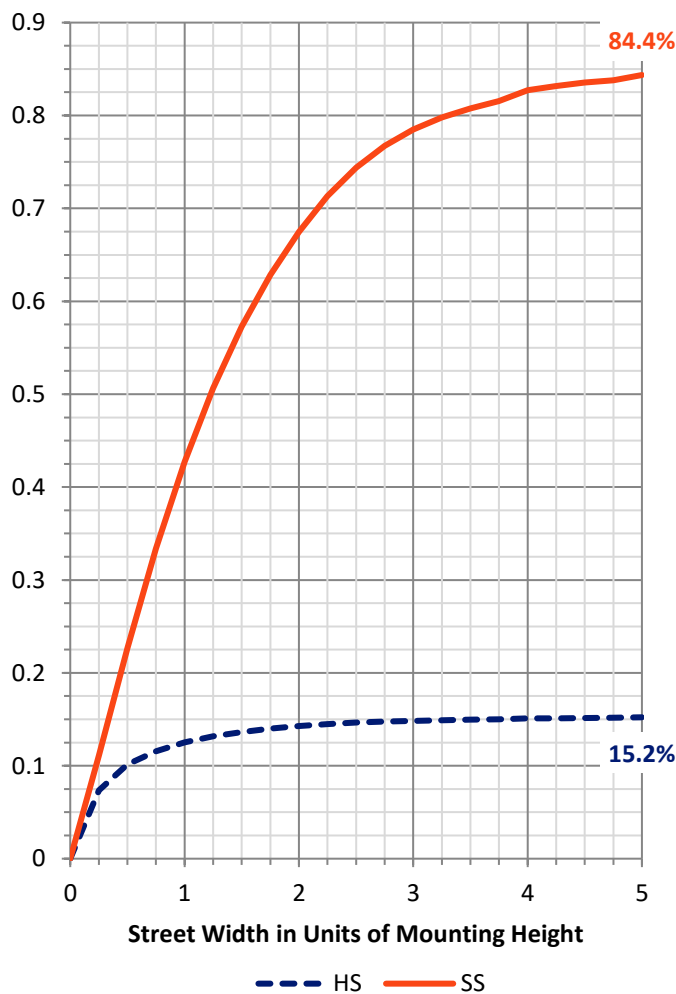
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4547.8	0.0	4547.8
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	24978.7	0.0	24978.7
	% Fixture	84.6	0.0	84.6
Total	Lumens	29526.6	0.0	29526.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	442.9	1.5
10°-20°	1154.6	3.9
20°-30°	1812.9	6.1
30°-40°	2725.7	9.2
40°-50°	4207.2	14.2
50°-60°	6248.0	21.2
60°-70°	7875.5	26.7
70°-80°	4554.4	15.4
80°-90°	505.4	1.7
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°	29526.6	100.0
0°-180°	29526.6	100.0

Coefficient of Utilization



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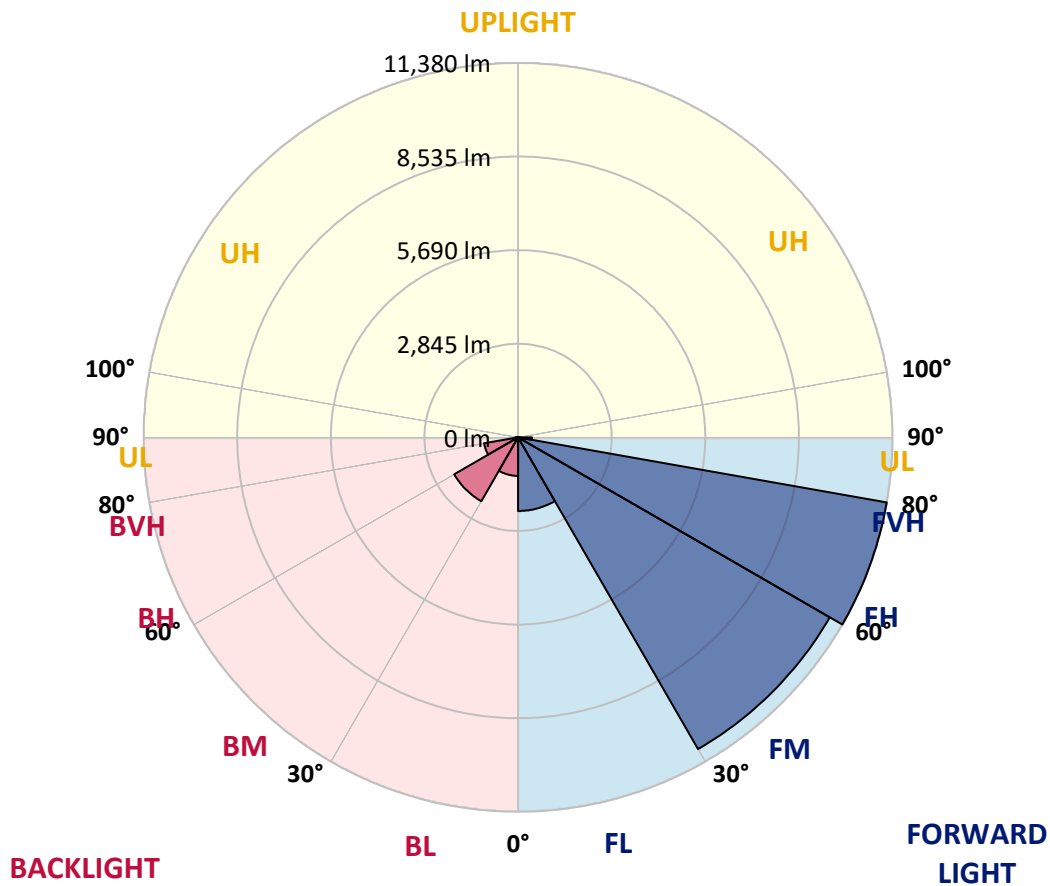
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2238.3	7.6			
FM (30°-60°)	10939.2	37.0			
FH (60°-80°)	11380.2	38.5			G4/12000
FVH (80°-90°)	421.0	1.4			G3/500
BL (0°-30°)	1172.0	4.0	B3/2500		
BM (30°-60°)	2241.7	7.6	B2/2500		
BH (60°-80°)	1049.6	3.6	B3/2500		G3/2500
BVH (80°-90°)	84.5	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-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	5014.0	5014.0	5014.0	5014.0	5014.0	5014.0	5014.0	5014.0	5014.0	5014.0	5014.0
2.5°	5044.8	5053.6	5060.2	5069.1	5064.6	5051.4	5062.4	5062.4	5038.2	5011.8	4987.5
5°	5051.4	5062.4	5060.2	5058.0	5040.4	5018.4	5018.4	5005.1	4963.3	4921.4	4881.7
7.5°	5038.2	5036.0	5033.8	5027.2	5007.3	4983.1	4978.7	4952.2	4897.1	4839.8	4782.5
10°	4978.7	4976.5	4983.1	4998.5	4994.1	4972.1	4972.1	4947.8	4883.9	4813.4	4738.5
12.5°	4930.2	4930.2	4956.7	4998.5	5014.0	5005.1	5007.3	4989.7	4917.0	4833.2	4745.1
15°	4936.8	4939.0	4996.3	5064.6	5093.3	5086.7	5088.9	5069.1	4987.5	4903.8	4784.7
17.5°	4980.9	4991.9	5091.1	5185.9	5223.3	5214.5	5199.1	5166.0	5073.5	4978.7	4833.2
20°	5073.5	5091.1	5218.9	5337.9	5382.0	5362.2	5335.7	5269.6	5168.2	5064.6	4886.1
22.5°	5256.4	5267.4	5408.5	5525.3	5560.5	5536.3	5483.4	5388.6	5271.8	5163.8	4950.0
25°	5514.2	5527.5	5661.9	5769.9	5761.1	5732.4	5659.7	5542.9	5404.1	5289.4	5042.6
27.5°	5820.6	5842.6	5974.9	6060.8	6003.5	5961.6	5880.1	5739.1	5582.6	5479.0	5183.7
30°	6155.6	6164.4	6276.8	6362.8	6274.6	6217.3	6118.1	5966.1	5825.0	5747.9	5395.2
32.5°	6479.6	6488.4	6585.4	6633.8	6541.3	6499.4	6413.5	6252.6	6153.4	6111.5	5710.4
35°	6821.2	6819.0	6898.3	6940.2	6845.4	6827.8	6739.6	6616.2	6598.6	6653.7	6171.0
37.5°	7162.8	7143.0	7184.8	7239.9	7187.0	7204.7	7147.4	7105.5	7173.8	7317.1	6783.7
40°	7436.1	7436.1	7480.2	7548.5	7566.1	7643.3	7610.2	7665.3	7885.7	8227.3	7541.9
42.5°	7678.5	7680.7	7773.3	7879.1	8006.9	8125.9	8152.4	8295.6	8751.8	9287.4	8494.0
45°	7932.0	7934.2	8059.8	8214.1	8485.2	8712.2	8765.1	9086.8	9739.2	10391.6	9527.6
47.5°	8225.1	8200.8	8375.0	8632.8	9018.5	9344.7	9481.3	9937.5	10761.8	11564.1	10501.8
50°	8555.7	8505.0	8698.9	9144.1	9620.2	10067.6	10296.8	10819.1	11859.4	12646.2	11418.6
52.5°	8928.1	8899.5	9102.3	9644.4	10371.7	10887.4	11198.2	11883.6	12926.1	13723.9	12145.9
55°	9391.0	9322.7	9615.8	10305.6	11253.3	11910.1	12278.1	12937.1	14092.0	14702.5	12701.3
57.5°	9897.9	9822.9	10215.2	11132.1	12399.3	13120.0	13580.7	14122.8	15189.5	15451.8	13027.5
60°	10444.5	10420.2	10885.2	12101.8	13765.8	14603.3	14936.1	15427.6	16143.8	15886.0	12945.9
62.5°	10944.7	10935.9	11612.5	13153.1	15213.8	16135.0	16399.5	16529.5	16831.5	15857.3	12298.0
65°	11471.5	11546.4	12461.1	14371.9	16873.3	17777.0	17887.1	17556.6	17062.9	15105.8	10971.2
67.5°	11537.6	11683.1	12994.4	15513.5	18446.9	19299.9	19211.7	17946.7	16379.7	13014.2	8599.8
70°	10318.8	10572.3	12143.7	15687.6	19555.5	20183.6	19546.7	17107.0	13900.2	9428.4	5408.5
72.5°	8621.8	8840.0	10228.5	13377.9	18125.2	18925.2	18063.5	14479.9	9822.9	5408.5	2754.9
75°	6711.0	6964.4	8244.9	10634.0	13569.6	13889.2	13457.2	10098.4	5399.6	2230.4	1251.8
77.5°	4094.9	4277.8	5274.0	7204.7	9494.6	9016.3	7641.0	5661.9	2369.2	1068.9	773.6
80°	1811.6	1924.0	2598.4	3870.1	5485.6	5185.9	4088.3	2417.7	1295.9	678.8	540.0
82.5°	971.9	1044.7	1280.5	1531.7	2408.9	2519.1	2043.0	1392.9	696.4	387.9	308.6
85°	427.6	469.4	581.8	555.4	791.2	778.0	784.6	956.5	332.8	178.5	200.6
87.5°	0.0	0.0	0.0	0.0	2.2	2.2	24.2	127.8	33.1	52.9	46.3
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°	5014.0	5014.0	5014.0	5014.0	5014.0	5014.0	5014.0	5014.0	5014.0	5014.0	5014.0
2.5°	4961.1	4921.4	4910.4	4897.1	4872.9	4831.0	4800.2	4764.9	4749.5	4731.9	4734.1
5°	4837.6	4789.2	4742.9	4683.4	4608.4	4524.7	4467.4	4401.3	4366.0	4332.9	4341.8
7.5°	4731.9	4656.9	4562.1	4436.5	4302.1	4152.2	4031.0	3936.2	3872.3	3828.2	3850.3
10°	4665.7	4577.6	4412.3	4207.3	3980.3	3751.1	3577.0	3413.9	3312.5	3233.2	3228.8
12.5°	4652.5	4537.9	4297.7	4000.1	3671.8	3365.4	3109.8	2889.4	2754.9	2655.7	2693.2
15°	4665.7	4520.3	4198.5	3808.4	3394.1	2979.7	2662.4	2408.9	2248.0	2157.7	2151.0
17.5°	4681.2	4502.6	4086.1	3601.2	3103.1	2629.3	2261.2	1992.4	1827.1	1736.7	1738.9
20°	4694.4	4476.2	3953.9	3374.2	2807.8	2303.1	1921.8	1666.2	1518.5	1452.4	1463.4
22.5°	4716.4	4449.7	3812.8	3131.8	2505.9	1988.0	1653.0	1445.8	1357.6	1313.5	1315.8
25°	4758.3	4434.3	3667.4	2867.3	2208.3	1736.7	1467.8	1329.0	1273.9	1247.4	1245.2
27.5°	4844.3	4447.5	3515.3	2611.7	1939.5	1545.0	1348.8	1258.4	1221.0	1203.3	1201.1
30°	4987.5	4500.4	3383.0	2351.6	1708.1	1395.1	1267.3	1212.2	1190.1	1174.7	1172.5
32.5°	5205.7	4599.6	3239.8	2109.2	1520.7	1284.9	1203.3	1174.7	1159.3	1150.5	1150.5
35°	5536.3	4780.3	3098.7	1897.6	1375.3	1198.9	1152.7	1141.6	1128.4	1124.0	1128.4
37.5°	6012.3	5069.1	2970.9	1712.5	1271.7	1132.8	1097.6	1102.0	1090.9	1097.6	1104.2
40°	6616.2	5454.7	2862.9	1560.4	1194.5	1084.3	1049.1	1064.5	1057.9	1064.5	1075.5
42.5°	7381.0	5933.0	2781.4	1441.4	1139.4	1044.7	1011.6	1027.0	1022.6	1031.4	1042.5
45°	8233.9	6563.3	2743.9	1357.6	1099.8	1016.0	980.8	991.8	987.4	994.0	1005.0
47.5°	9051.6	7136.3	2777.0	1309.1	1066.7	991.8	954.3	958.7	956.5	954.3	960.9
50°	9756.8	7592.6	2871.7	1293.7	1044.7	967.5	932.3	934.5	927.9	914.6	919.0
52.5°	10332.1	7958.4	2929.0	1293.7	1033.6	941.1	908.0	910.2	897.0	879.4	881.6
55°	10711.1	8106.1	2882.7	1291.5	1029.2	919.0	883.8	886.0	872.8	850.7	852.9
57.5°	10819.1	7962.8	2688.8	1267.3	1024.8	901.4	859.5	863.9	855.1	830.9	830.9
60°	10517.2	7438.3	2334.0	1212.2	1013.8	890.4	841.9	848.5	844.1	819.9	819.9
62.5°	9726.0	6506.0	1910.8	1128.4	983.0	877.2	826.5	839.7	850.7	837.5	835.3
65°	8244.9	5212.3	1553.8	1035.9	943.3	855.1	804.4	837.5	861.7	879.4	879.4
67.5°	6186.4	3731.3	1267.3	938.9	883.8	811.0	775.8	806.6	824.3	835.3	841.9
70°	3770.9	2195.1	998.4	826.5	797.8	744.9	718.5	687.6	663.4	659.0	661.2
72.5°	1844.7	1256.2	811.0	703.1	681.0	632.5	573.0	559.8	548.8	542.2	540.0
75°	1016.0	875.0	670.0	584.0	544.4	484.9	471.6	449.6	445.2	436.4	438.6
77.5°	718.5	689.8	553.2	473.8	414.3	383.5	390.1	374.7	374.7	368.1	365.9
80°	540.0	542.2	425.4	346.0	306.3	295.3	301.9	301.9	297.5	295.3	293.1
82.5°	341.6	385.7	286.5	222.6	218.2	220.4	218.2	216.0	220.4	213.8	211.6
85°	235.8	277.7	174.1	132.2	132.2	130.0	134.4	132.2	136.6	130.0	130.0
87.5°	52.9	123.4	63.9	39.7	41.9	39.7	41.9	44.1	48.5	50.7	50.7
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)