

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: P640183

Luminaire Tested: GWS-SA5D-735-U-SL4-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640183
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-SA5D-735-U-SL4-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS
Light Source: (80) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28455.7 lumens
Efficiency: N/A
Efficacy: 139.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

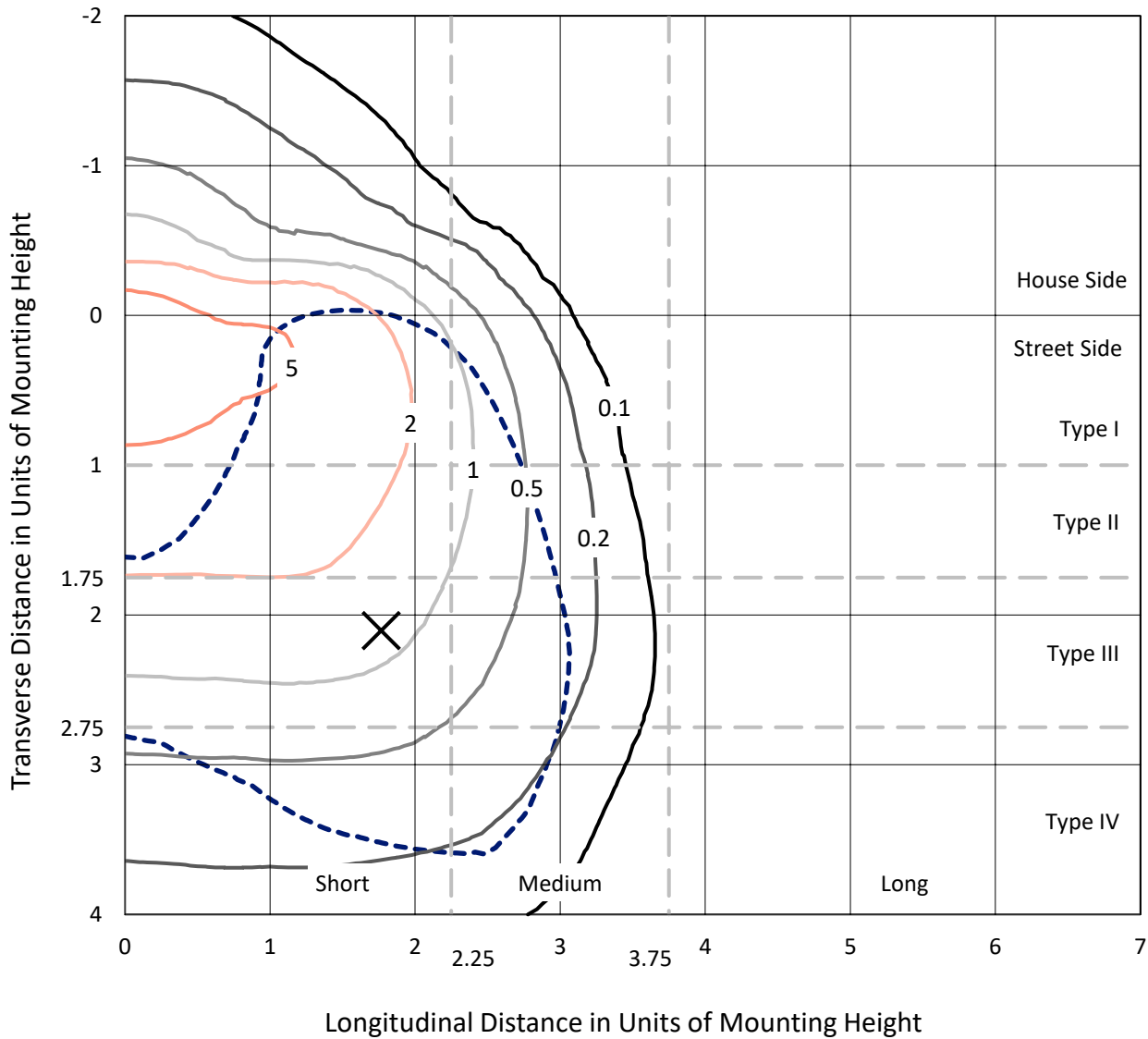
Input Watts (W): 204.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

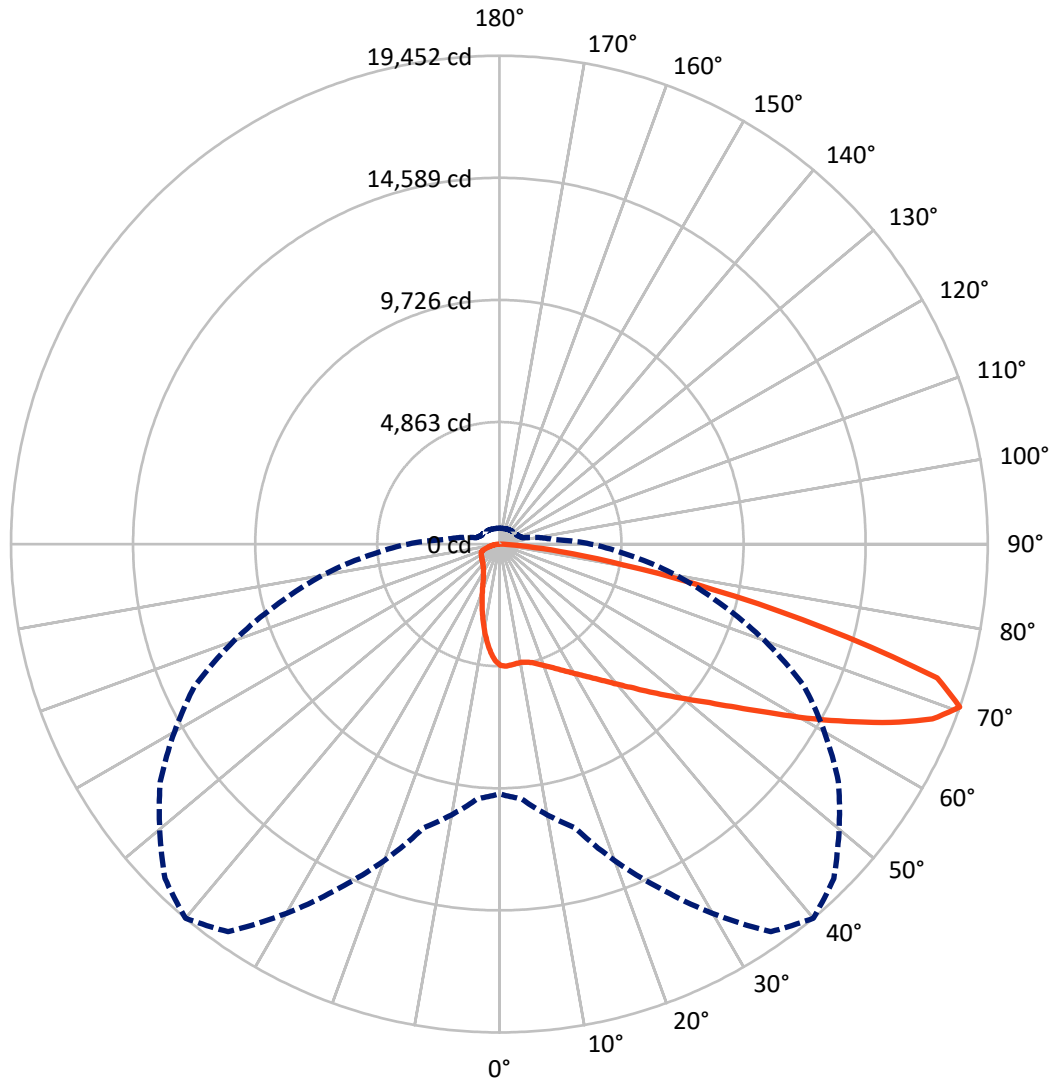
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 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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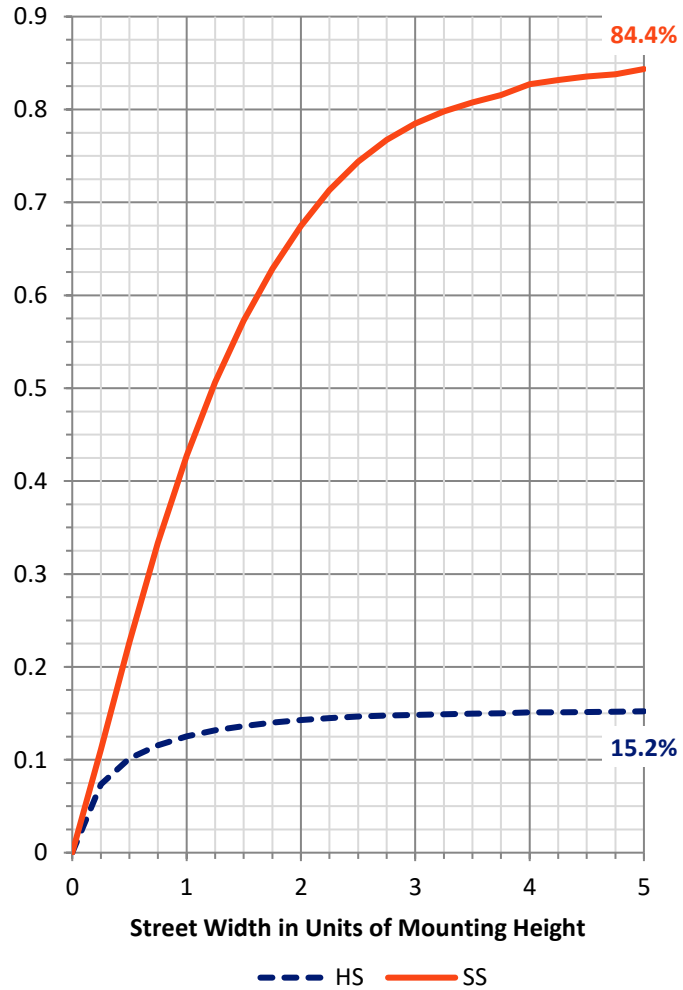
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4382.9	0.0	4382.9
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	24072.8	0.0	24072.8
	% Fixture	84.6	0.0	84.6
Total	Lumens	28455.7	0.0	28455.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	426.9	1.5
10°-20°	1112.7	3.9
20°-30°	1747.1	6.1
30°-40°	2626.8	9.2
40°-50°	4054.6	14.2
50°-60°	6021.4	21.2
60°-70°	7589.9	26.7
70°-80°	4389.2	15.4
80°-90°	487.1	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°	28455.7	100.0
0°-180°	28455.7	100.0

Coefficient of Utilization



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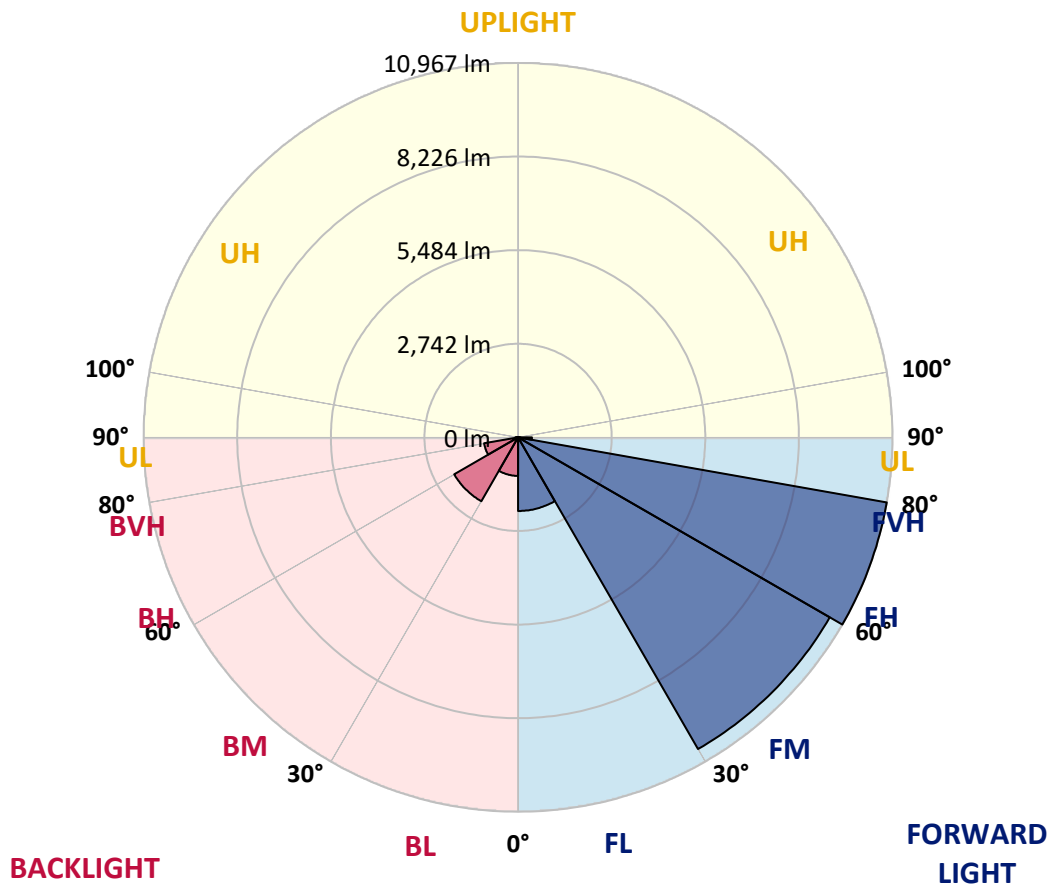
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2157.2	7.6			
FM (30°-60°)	10542.5	37.0			
FH (60°-80°)	10967.5	38.5			G4/12000
FVH (80°-90°)	405.7	1.4			G3/500
BL (0°-30°)	1129.5	4.0	B3/2500		
BM (30°-60°)	2160.4	7.6	B2/2500		
BH (60°-80°)	1011.6	3.6	B3/2500		G3/2500
BVH (80°-90°)	81.4	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°	4832.1	4832.1	4832.1	4832.1	4832.1	4832.1	4832.1	4832.1	4832.1	4832.1	4832.1
2.5°	4861.8	4870.3	4876.7	4885.2	4881.0	4868.2	4878.8	4878.8	4855.5	4830.0	4806.6
5°	4868.2	4878.8	4876.7	4874.6	4857.6	4836.4	4836.4	4823.6	4783.3	4742.9	4704.7
7.5°	4855.5	4853.3	4851.2	4844.8	4825.7	4802.4	4798.1	4772.6	4719.5	4664.3	4609.1
10°	4798.1	4796.0	4802.4	4817.2	4813.0	4791.7	4791.7	4768.4	4706.8	4638.8	4566.6
12.5°	4751.4	4751.4	4776.9	4817.2	4832.1	4823.6	4825.7	4808.7	4738.6	4657.9	4573.0
15°	4757.8	4759.9	4815.1	4881.0	4908.6	4902.2	4904.3	4885.2	4806.6	4725.9	4611.2
17.5°	4800.2	4810.9	4906.4	4997.8	5033.9	5025.4	5010.5	4978.7	4889.5	4798.1	4657.9
20°	4889.5	4906.4	5029.6	5144.3	5186.8	5167.7	5142.2	5078.5	4980.8	4881.0	4708.9
22.5°	5065.7	5076.4	5212.3	5324.9	5358.9	5335.5	5284.5	5193.2	5080.6	4976.5	4770.5
25°	5314.3	5327.0	5456.6	5560.6	5552.1	5524.5	5454.4	5341.9	5208.1	5097.6	4859.7
27.5°	5609.5	5630.7	5758.2	5841.0	5785.8	5745.4	5666.8	5530.9	5380.1	5280.3	4995.7
30°	5932.3	5940.8	6049.2	6132.0	6047.0	5991.8	5896.2	5749.7	5613.7	5539.4	5199.6
32.5°	6244.6	6253.1	6346.5	6393.2	6304.0	6263.7	6180.8	6025.8	5930.2	5889.9	5503.3
35°	6573.8	6571.7	6648.1	6688.5	6597.1	6580.2	6495.2	6376.3	6359.3	6412.4	5947.2
37.5°	6903.0	6883.9	6924.2	6977.3	6926.4	6943.4	6888.1	6847.8	6913.6	7051.7	6537.7
40°	7166.4	7166.4	7208.9	7274.7	7291.7	7366.0	7334.2	7387.3	7599.7	7928.9	7268.3
42.5°	7400.0	7402.1	7491.4	7593.3	7716.5	7831.2	7856.7	7994.7	8434.4	8950.5	8185.9
45°	7644.3	7646.4	7767.5	7916.2	8177.4	8396.2	8447.2	8757.3	9386.0	10014.7	9182.1
47.5°	7926.8	7903.4	8071.2	8319.7	8691.4	9005.8	9137.5	9577.1	10371.5	11144.6	10120.9
50°	8245.4	8196.5	8383.4	8812.5	9271.3	9702.4	9923.3	10426.7	11429.3	12187.5	11004.5
52.5°	8604.3	8576.7	8772.1	9294.6	9995.6	10492.6	10792.1	11452.6	12457.3	13226.2	11705.4
55°	9050.4	8984.5	9267.0	9931.8	10845.2	11478.1	11832.8	12467.9	13580.9	14169.2	12240.6
57.5°	9538.9	9466.7	9844.7	10728.3	11949.6	12644.2	13088.1	13610.6	14638.6	14891.4	12555.0
60°	10065.6	10042.3	10490.4	11662.9	13266.5	14073.6	14394.4	14868.0	15558.3	15309.8	12476.4
62.5°	10547.8	10539.3	11191.4	12676.0	14662.0	15549.8	15804.7	15930.0	16221.0	15282.2	11851.9
65°	11055.4	11127.6	12009.1	13850.6	16261.4	17132.2	17238.4	16919.8	16444.0	14557.9	10573.3
67.5°	11119.1	11259.3	12523.1	14950.8	17777.9	18599.9	18514.9	17295.7	15785.6	12542.2	8287.9
70°	9944.6	10188.8	11703.3	15118.6	18846.3	19451.6	18837.8	16486.5	13396.1	9086.5	5212.3
72.5°	8309.1	8519.4	9857.5	12892.7	17467.8	18238.8	17408.3	13954.7	9466.7	5212.3	2655.0
75°	6467.6	6711.8	7945.9	10248.3	13077.5	13385.5	12969.2	9732.2	5203.8	2149.5	1206.4
77.5°	3946.4	4122.7	5082.7	6943.4	9150.2	8689.3	7363.9	5456.6	2283.3	1030.1	745.5
80°	1745.9	1854.3	2504.2	3729.7	5286.6	4997.8	3940.0	2330.0	1248.9	654.2	520.4
82.5°	936.7	1006.8	1234.0	1476.2	2321.5	2427.7	1968.9	1342.4	671.2	373.8	297.4
85°	412.1	452.4	560.7	535.2	762.5	749.8	756.1	921.8	320.7	172.0	193.3
87.5°	0.0	0.0	0.0	0.0	2.1	2.1	23.4	123.2	31.9	51.0	44.6
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°	4832.1	4832.1	4832.1	4832.1	4832.1	4832.1	4832.1	4832.1	4832.1	4832.1	4832.1
2.5°	4781.1	4742.9	4732.3	4719.5	4696.2	4655.8	4626.1	4592.1	4577.2	4560.2	4562.4
5°	4662.2	4615.5	4570.9	4513.5	4441.3	4360.6	4305.4	4241.6	4207.6	4175.8	4184.3
7.5°	4560.2	4488.0	4396.7	4275.6	4146.1	4001.6	3884.8	3793.5	3731.9	3689.4	3710.6
10°	4496.5	4411.6	4252.3	4054.7	3835.9	3615.1	3447.3	3290.1	3192.4	3115.9	3111.7
12.5°	4483.8	4373.3	4141.8	3855.1	3538.6	3243.4	2997.0	2784.6	2655.0	2559.4	2595.5
15°	4496.5	4356.3	4046.2	3670.3	3271.0	2871.7	2565.8	2321.5	2166.5	2079.4	2073.0
17.5°	4511.4	4339.3	3937.9	3470.6	2990.6	2533.9	2179.2	1920.1	1760.8	1673.7	1675.8
20°	4524.1	4313.8	3810.5	3251.8	2706.0	2219.6	1852.1	1605.7	1463.4	1399.7	1410.3
22.5°	4545.4	4288.4	3674.5	3018.2	2415.0	1915.8	1593.0	1393.3	1308.4	1265.9	1268.0
25°	4585.7	4273.5	3534.3	2763.3	2128.2	1673.7	1414.6	1280.8	1227.7	1202.2	1200.1
27.5°	4668.6	4286.2	3387.8	2516.9	1869.1	1488.9	1299.9	1212.8	1176.7	1159.7	1157.6
30°	4806.6	4337.2	3260.3	2266.3	1646.1	1344.5	1221.3	1168.2	1147.0	1132.1	1130.0
32.5°	5016.9	4432.8	3122.3	2032.7	1465.6	1238.3	1159.7	1132.1	1117.2	1108.7	1108.7
35°	5335.5	4607.0	2986.3	1828.8	1325.4	1155.5	1110.9	1100.2	1087.5	1083.2	1087.5
37.5°	5794.3	4885.2	2863.2	1650.3	1225.5	1091.7	1057.8	1062.0	1051.4	1057.8	1064.1
40°	6376.3	5256.9	2759.1	1503.8	1151.2	1045.0	1011.0	1025.9	1019.5	1025.9	1036.5
42.5°	7113.3	5717.8	2680.5	1389.1	1098.1	1006.8	974.9	989.8	985.5	994.0	1004.7
45°	7935.3	6325.3	2644.4	1308.4	1059.9	979.2	945.2	955.8	951.6	957.9	968.5
47.5°	8723.3	6877.5	2676.2	1261.7	1028.0	955.8	919.7	923.9	921.8	919.7	926.1
50°	9403.0	7317.2	2767.6	1246.8	1006.8	932.4	898.5	900.6	894.2	881.5	885.7
52.5°	9957.3	7669.8	2822.8	1246.8	996.2	906.9	875.1	877.2	864.5	847.5	849.6
55°	10322.6	7812.1	2778.2	1244.7	991.9	885.7	851.7	853.8	841.1	819.9	822.0
57.5°	10426.7	7674.0	2591.3	1221.3	987.7	868.7	828.4	832.6	824.1	800.7	800.7
60°	10135.7	7168.5	2249.3	1168.2	977.0	858.1	811.4	817.7	813.5	790.1	790.1
62.5°	9373.2	6270.1	1841.5	1087.5	947.3	845.4	796.5	809.2	819.9	807.1	805.0
65°	7945.9	5023.3	1497.4	998.3	909.1	824.1	775.3	807.1	830.5	847.5	847.5
67.5°	5962.1	3595.9	1221.3	904.8	851.7	781.6	747.6	777.4	794.4	805.0	811.4
70°	3634.2	2115.5	962.2	796.5	768.9	717.9	692.4	662.7	639.3	635.1	637.2
72.5°	1777.8	1210.7	781.6	677.6	656.3	609.6	552.2	539.5	528.9	522.5	520.4
75°	979.2	843.2	645.7	562.9	524.6	467.3	454.5	433.3	429.0	420.6	422.7
77.5°	692.4	664.8	533.1	456.7	399.3	369.6	375.9	361.1	361.1	354.7	352.6
80°	520.4	522.5	409.9	333.5	295.2	284.6	291.0	291.0	286.7	284.6	282.5
82.5°	329.2	371.7	276.1	214.5	210.3	212.4	210.3	208.2	212.4	206.0	203.9
85°	227.3	267.6	167.8	127.4	127.4	125.3	129.6	127.4	131.7	125.3	125.3
87.5°	51.0	118.9	61.6	38.2	40.4	38.2	40.4	42.5	46.7	48.9	48.9
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)