

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: P642163

Luminaire Tested: GWS-SA6C-735-U-SL4-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P642163
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-SA6C-735-U-SL4-W
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26896.3 lumens
Efficiency: N/A
Efficacy: 142.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

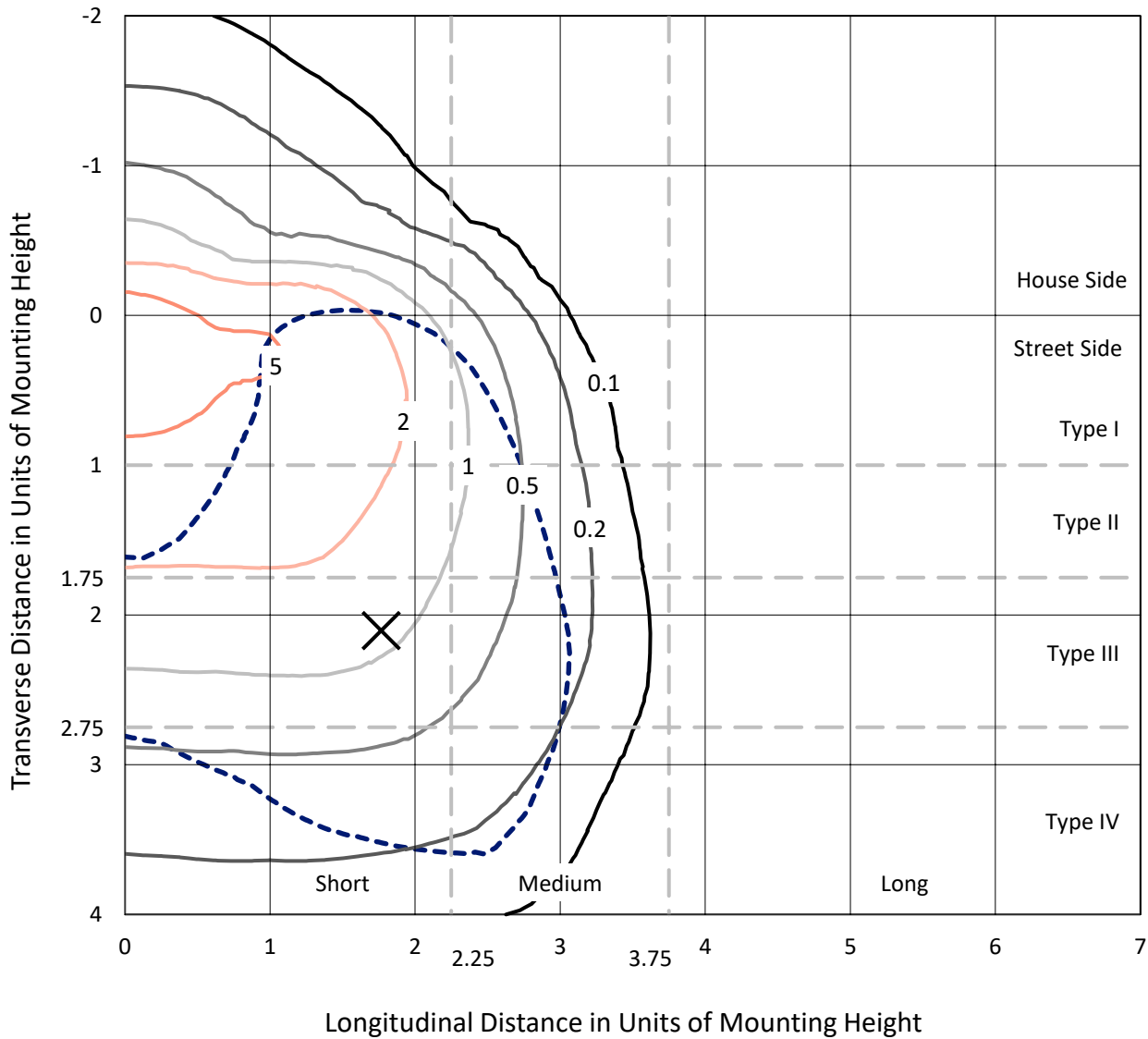
Input Watts (W): 189.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

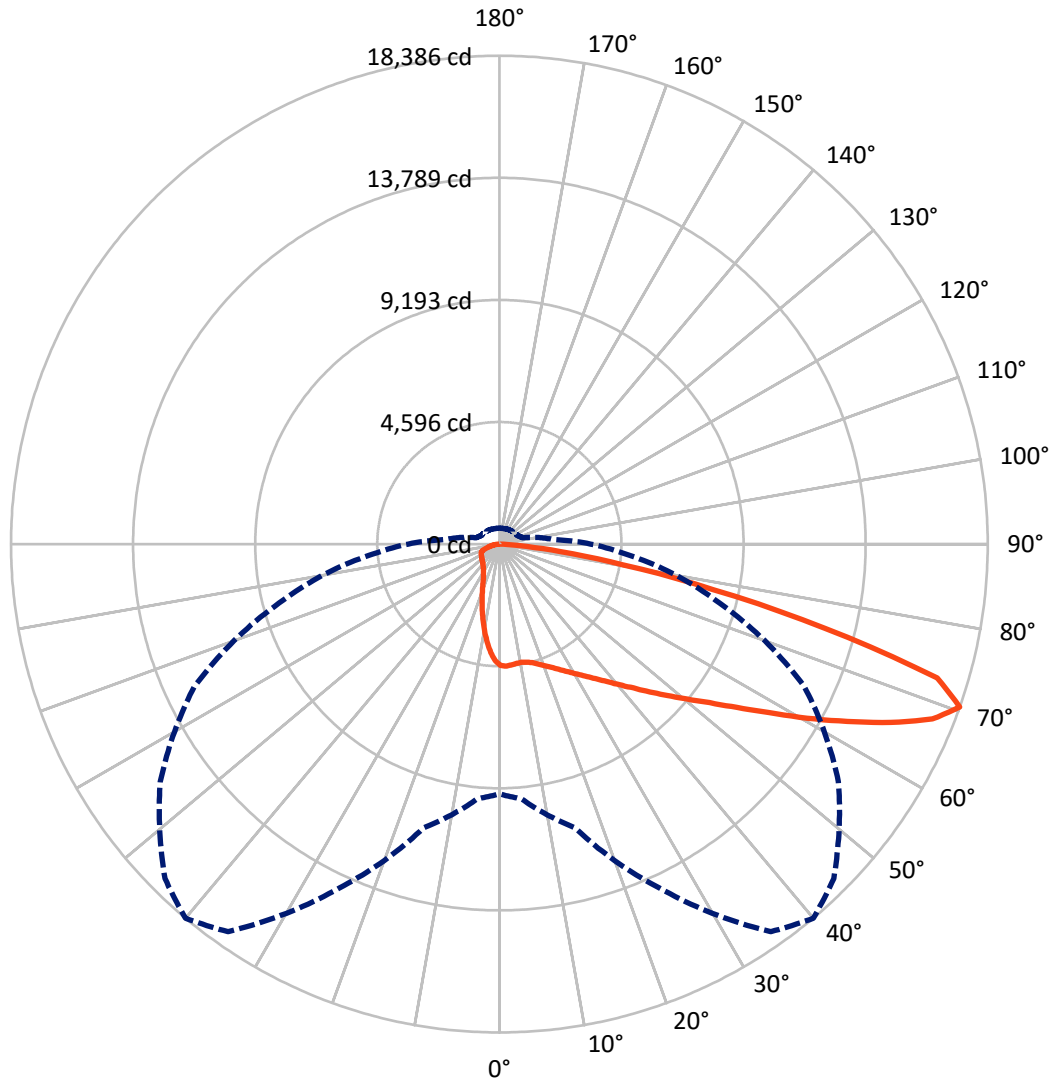
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 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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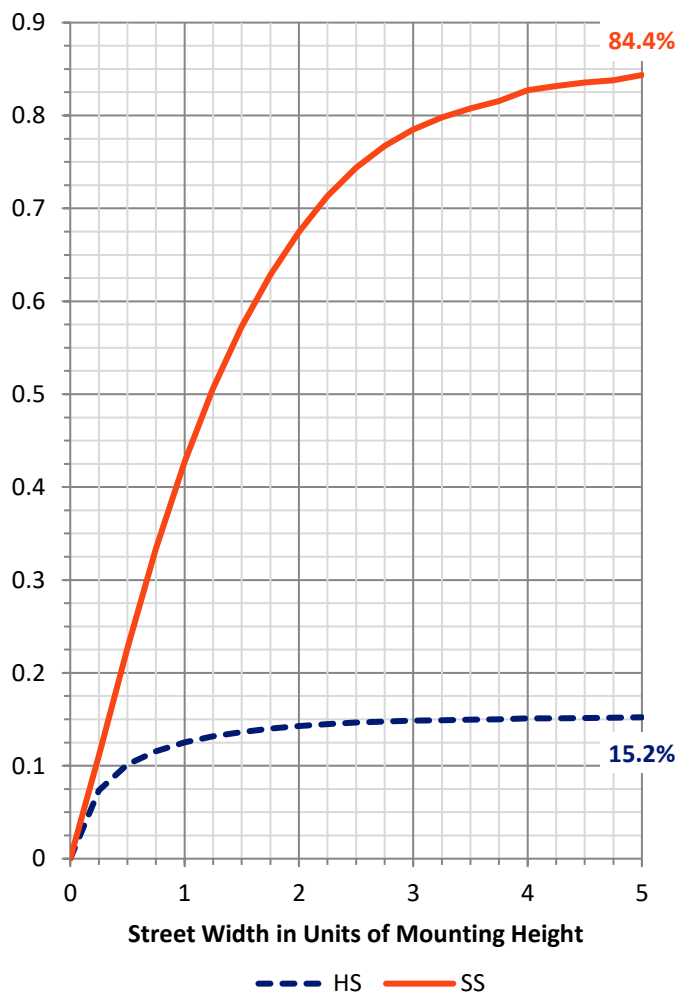
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4142.7	0.0	4142.7
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	22753.6	0.0	22753.6
	% Fixture	84.6	0.0	84.6
Total	Lumens	26896.3	0.0	26896.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	403.5	1.5
10°-20°	1051.7	3.9
20°-30°	1651.4	6.1
30°-40°	2482.9	9.2
40°-50°	3832.4	14.2
50°-60°	5691.4	21.2
60°-70°	7174.0	26.7
70°-80°	4148.6	15.4
80°-90°	460.4	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°	26896.3	100.0
0°-180°	26896.3	100.0

Coefficient of Utilization



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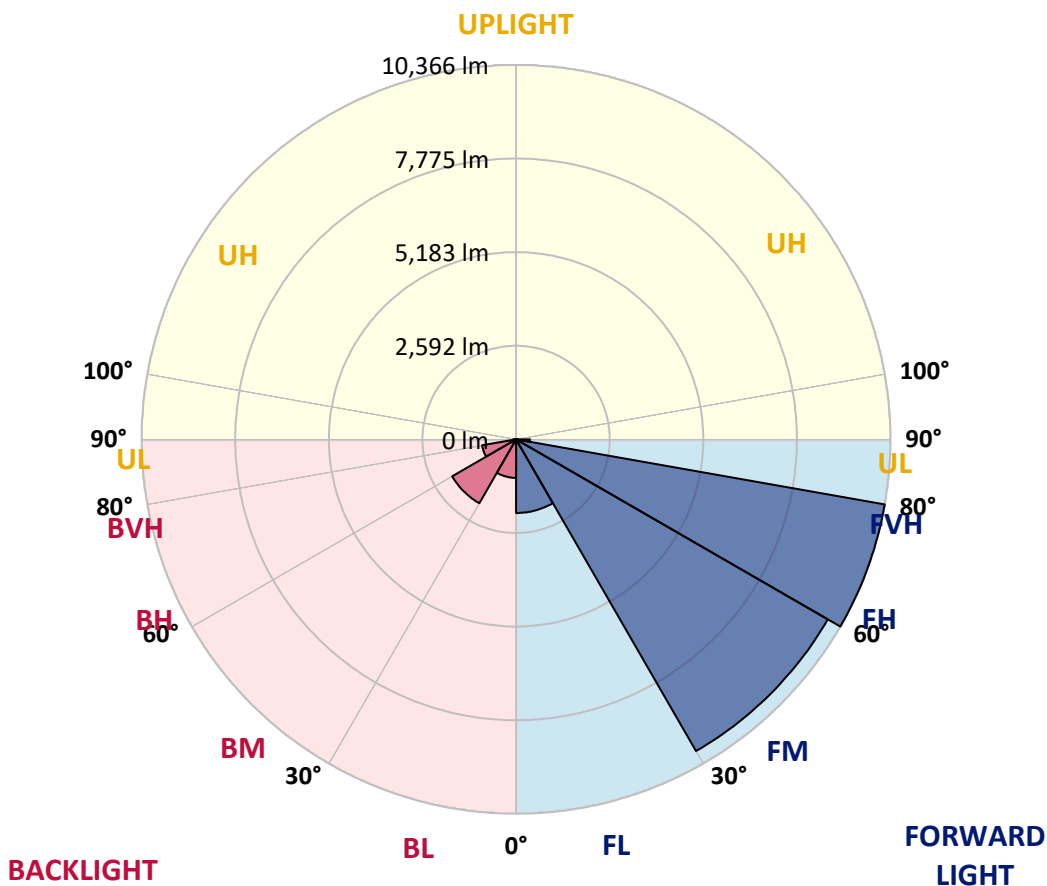
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2038.9	7.6			
FM (30°-60°)	9964.7	37.0			
FH (60°-80°)	10366.5	38.5			G4/12000
FVH (80°-90°)	383.5	1.4			G3/500
BL (0°-30°)	1067.6	4.0	B3/2500		
BM (30°-60°)	2042.0	7.6	B2/2500		
BH (60°-80°)	956.1	3.6	B2/1000		G2/1000
BVH (80°-90°)	77.0	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°	4567.3	4567.3	4567.3	4567.3	4567.3	4567.3	4567.3	4567.3	4567.3	4567.3	4567.3
2.5°	4595.4	4603.4	4609.5	4617.5	4613.5	4601.4	4611.5	4611.5	4589.4	4565.3	4543.2
5°	4601.4	4611.5	4609.5	4607.5	4591.4	4571.3	4571.3	4559.3	4521.1	4483.0	4446.8
7.5°	4589.4	4587.4	4585.4	4579.3	4561.3	4539.2	4535.2	4511.1	4460.9	4408.7	4356.5
10°	4535.2	4533.2	4539.2	4553.2	4549.2	4529.2	4529.2	4507.1	4448.9	4384.6	4316.3
12.5°	4491.0	4491.0	4515.1	4553.2	4567.3	4559.3	4561.3	4545.2	4479.0	4402.7	4322.4
15°	4497.0	4499.0	4551.2	4613.5	4639.6	4633.6	4635.6	4617.5	4543.2	4466.9	4358.5
17.5°	4537.2	4547.2	4637.6	4723.9	4758.0	4750.0	4735.9	4705.8	4621.5	4535.2	4402.7
20°	4621.5	4637.6	4754.0	4862.4	4902.6	4884.5	4860.4	4800.2	4707.8	4613.5	4450.9
22.5°	4788.1	4798.2	4926.7	5033.1	5065.2	5043.1	4994.9	4908.6	4802.2	4703.8	4509.1
25°	5023.0	5035.1	5157.5	5255.9	5247.9	5221.8	5155.5	5049.1	4922.6	4818.3	4593.4
27.5°	5302.1	5322.2	5442.6	5520.9	5468.7	5430.6	5356.3	5227.8	5085.3	4990.9	4721.9
30°	5607.2	5615.3	5717.7	5796.0	5715.6	5663.5	5573.1	5434.6	5306.1	5235.8	4914.6
32.5°	5902.4	5910.4	5998.7	6042.9	5958.6	5920.4	5842.1	5695.6	5605.2	5567.1	5201.7
35°	6213.5	6211.5	6283.8	6321.9	6235.6	6219.6	6139.3	6026.8	6010.8	6061.0	5621.3
37.5°	6524.7	6506.6	6544.8	6595.0	6546.8	6562.9	6510.7	6472.5	6534.8	6665.2	6179.4
40°	6773.7	6773.7	6813.8	6876.0	6892.1	6962.4	6932.3	6982.4	7183.2	7494.4	6870.0
42.5°	6994.5	6996.5	7080.8	7177.2	7293.6	7402.0	7426.1	7556.6	7972.2	8460.0	7737.3
45°	7225.4	7227.4	7341.8	7482.3	7729.3	7936.1	7984.2	8277.4	8871.6	9465.9	8678.9
47.5°	7492.4	7470.3	7628.9	7863.8	8215.1	8512.2	8636.7	9052.3	9803.1	10533.9	9566.2
50°	7793.5	7747.3	7924.0	8329.6	8763.2	9170.7	9379.5	9855.3	10802.9	11519.6	10401.4
52.5°	8132.8	8106.7	8291.4	8785.3	9447.8	9917.6	10200.6	10825.0	11774.6	12501.4	11063.9
55°	8554.4	8492.2	8759.2	9387.6	10250.8	10849.1	11184.4	11784.6	12836.6	13392.7	11569.8
57.5°	9016.2	8947.9	9305.2	10140.4	11294.8	11951.3	12370.9	12864.7	13836.4	14075.3	11866.9
60°	9514.0	9492.0	9915.6	11023.8	12539.5	13302.4	13605.5	14053.2	14705.7	14470.8	11792.7
62.5°	9969.8	9961.7	10578.1	11981.4	13858.5	14697.7	14938.6	15057.0	15332.1	14444.7	11202.4
65°	10449.6	10517.8	11351.0	13091.6	15370.2	16193.3	16293.7	15992.6	15542.9	13760.1	9993.9
67.5°	10509.8	10642.3	11836.8	14131.5	16803.6	17580.6	17500.3	16347.9	14920.5	11854.9	7833.7
70°	9399.6	9630.5	11061.9	14290.1	17813.5	18385.6	17805.4	15583.0	12662.0	8588.5	4926.7
72.5°	7853.7	8052.5	9317.3	12186.2	16510.5	17239.3	16454.3	13190.0	8947.9	4926.7	2509.5
75°	6113.2	6344.0	7510.4	9686.7	12360.8	12651.9	12258.4	9198.8	4918.6	2031.7	1140.3
77.5°	3730.1	3896.8	4804.2	6562.9	8648.8	8213.1	6960.4	5157.5	2158.2	973.7	704.7
80°	1650.3	1752.6	2367.0	3525.4	4996.9	4723.9	3724.1	2202.3	1180.5	618.3	491.9
82.5°	885.4	951.6	1166.4	1395.3	2194.3	2294.7	1861.0	1268.8	634.4	353.3	281.1
85°	389.5	427.6	530.0	505.9	720.7	708.7	714.7	871.3	303.1	162.6	182.7
87.5°	0.0	0.0	0.0	0.0	2.0	2.0	22.1	116.4	30.1	48.2	42.2
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°	4567.3	4567.3	4567.3	4567.3	4567.3	4567.3	4567.3	4567.3	4567.3	4567.3	4567.3
2.5°	4519.1	4483.0	4472.9	4460.9	4438.8	4400.7	4372.6	4340.4	4326.4	4310.3	4312.3
5°	4406.7	4362.5	4320.4	4266.2	4197.9	4121.6	4069.4	4009.2	3977.1	3947.0	3955.0
7.5°	4310.3	4242.1	4155.7	4041.3	3918.8	3782.3	3671.9	3585.6	3527.4	3487.2	3507.3
10°	4250.1	4169.8	4019.2	3832.5	3625.7	3416.9	3258.3	3109.8	3017.4	2945.2	2941.1
12.5°	4238.1	4133.7	3914.8	3643.8	3344.7	3065.6	2832.7	2632.0	2509.5	2419.2	2453.3
15°	4250.1	4117.6	3824.5	3469.1	3091.7	2714.3	2425.2	2194.3	2047.8	1965.4	1959.4
17.5°	4264.2	4101.5	3722.1	3280.4	2826.7	2395.1	2059.8	1814.9	1664.3	1582.0	1584.0
20°	4276.2	4077.4	3601.6	3073.6	2557.7	2097.9	1750.6	1517.7	1383.2	1323.0	1333.0
22.5°	4296.3	4053.4	3473.2	2852.8	2282.6	1810.9	1505.7	1317.0	1236.7	1196.5	1198.5
25°	4334.4	4039.3	3340.7	2611.9	2011.6	1582.0	1337.1	1210.6	1160.4	1136.3	1134.3
27.5°	4412.7	4051.3	3202.1	2379.0	1766.7	1407.3	1228.7	1146.3	1112.2	1096.2	1094.1
30°	4543.2	4099.5	3081.7	2142.1	1555.9	1270.8	1154.4	1104.2	1084.1	1070.1	1068.0
32.5°	4742.0	4189.9	2951.2	1921.3	1385.2	1170.4	1096.2	1070.1	1056.0	1048.0	1048.0
35°	5043.1	4354.5	2822.7	1728.5	1252.7	1092.1	1050.0	1039.9	1027.9	1023.9	1027.9
37.5°	5476.7	4617.5	2706.3	1559.9	1158.4	1031.9	999.8	1003.8	993.8	999.8	1005.8
40°	6026.8	4968.8	2607.9	1421.4	1088.1	987.7	955.6	969.7	963.7	969.7	979.7
42.5°	6723.5	5404.5	2533.6	1313.0	1037.9	951.6	921.5	935.5	931.5	939.6	949.6
45°	7500.4	5978.6	2499.5	1236.7	1001.8	925.5	893.4	903.4	899.4	905.4	915.5
47.5°	8245.2	6500.6	2529.6	1192.5	971.7	903.4	869.3	873.3	871.3	869.3	875.3
50°	8887.7	6916.2	2615.9	1178.5	951.6	881.3	849.2	851.2	845.2	833.2	837.2
52.5°	9411.6	7249.5	2668.1	1178.5	941.6	857.2	827.1	829.1	817.1	801.0	803.0
55°	9757.0	7384.0	2625.9	1176.5	937.6	837.2	805.0	807.1	795.0	774.9	776.9
57.5°	9855.3	7253.5	2449.3	1154.4	933.5	821.1	783.0	787.0	779.0	756.9	756.9
60°	9580.3	6775.7	2126.1	1104.2	923.5	811.1	766.9	772.9	768.9	746.8	746.8
62.5°	8859.6	5926.4	1740.6	1027.9	895.4	799.0	752.9	764.9	774.9	762.9	760.9
65°	7510.4	4748.0	1415.4	943.6	859.3	779.0	732.8	762.9	785.0	801.0	801.0
67.5°	5635.3	3398.9	1154.4	855.2	805.0	738.8	706.7	734.8	750.8	760.9	766.9
70°	3435.0	1999.6	909.4	752.9	726.8	678.6	654.5	626.4	604.3	600.3	602.3
72.5°	1680.4	1144.3	738.8	640.4	620.3	576.2	522.0	509.9	499.9	493.9	491.9
75°	925.5	797.0	610.3	532.0	495.9	441.7	429.6	409.6	405.5	397.5	399.5
77.5°	654.5	628.4	503.9	431.6	377.4	349.3	355.3	341.3	341.3	335.3	333.3
80°	491.9	493.9	387.5	315.2	279.1	269.0	275.0	275.0	271.0	269.0	267.0
82.5°	311.2	351.3	261.0	202.8	198.8	200.8	198.8	196.7	200.8	194.7	192.7
85°	214.8	253.0	158.6	120.5	120.5	118.4	122.5	120.5	124.5	118.4	118.4
87.5°	48.2	112.4	58.2	36.1	38.1	36.1	38.1	40.2	44.2	46.2	46.2
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)