

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: P637535

Luminaire Tested: GWS-SA4D-722-U-SL2-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637535
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-29)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4D-722-U-SL2-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15363.6 lumens
Efficiency: N/A
Efficacy: 94.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

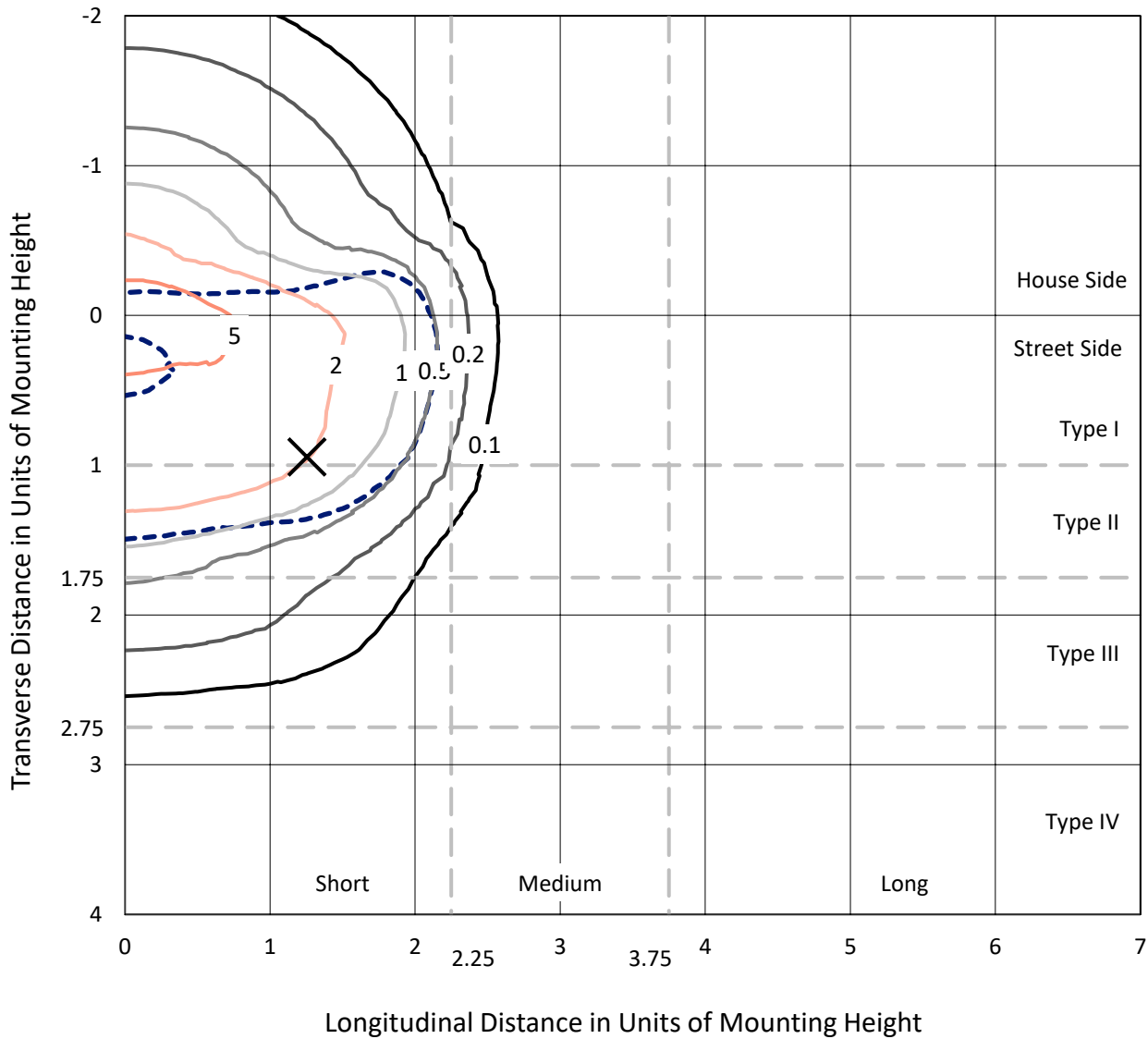
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

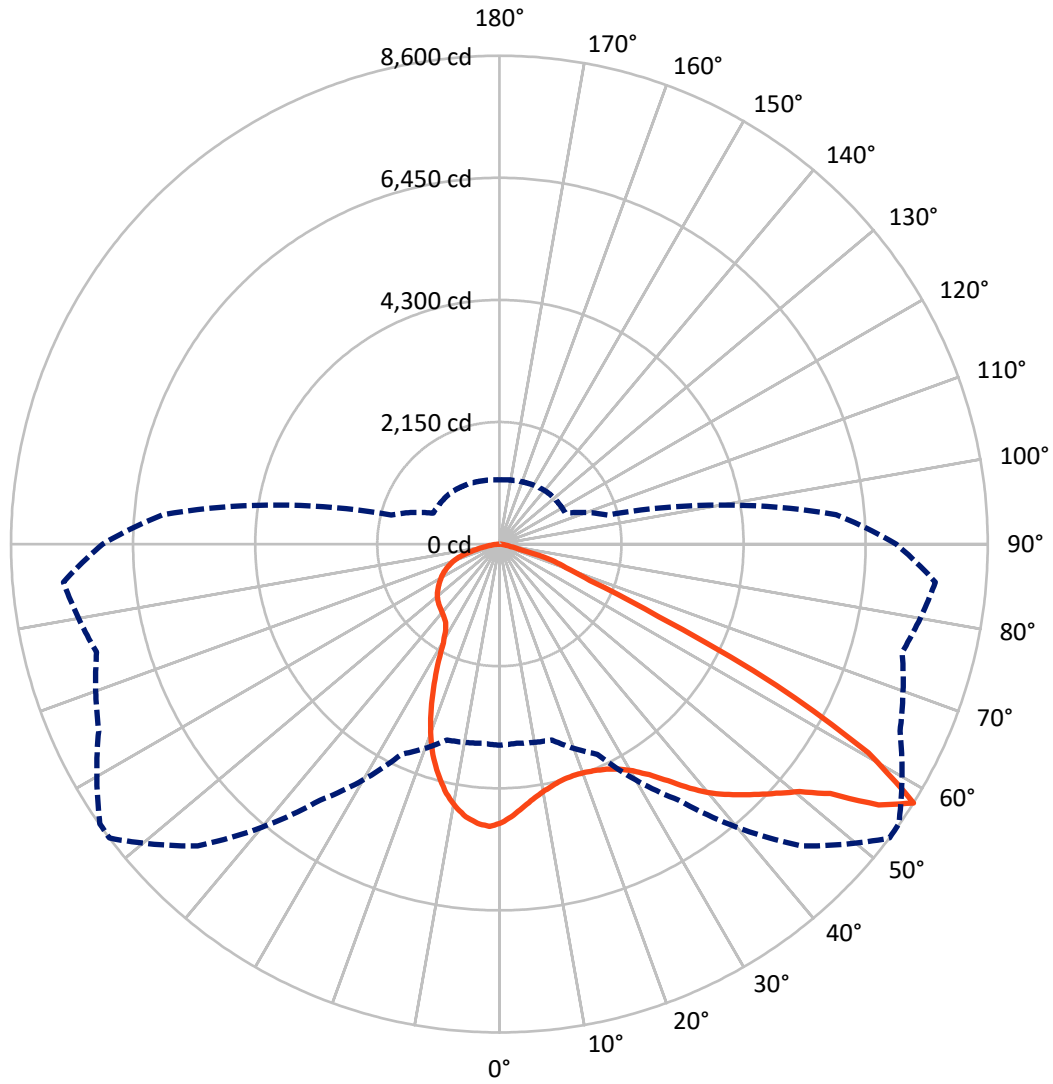
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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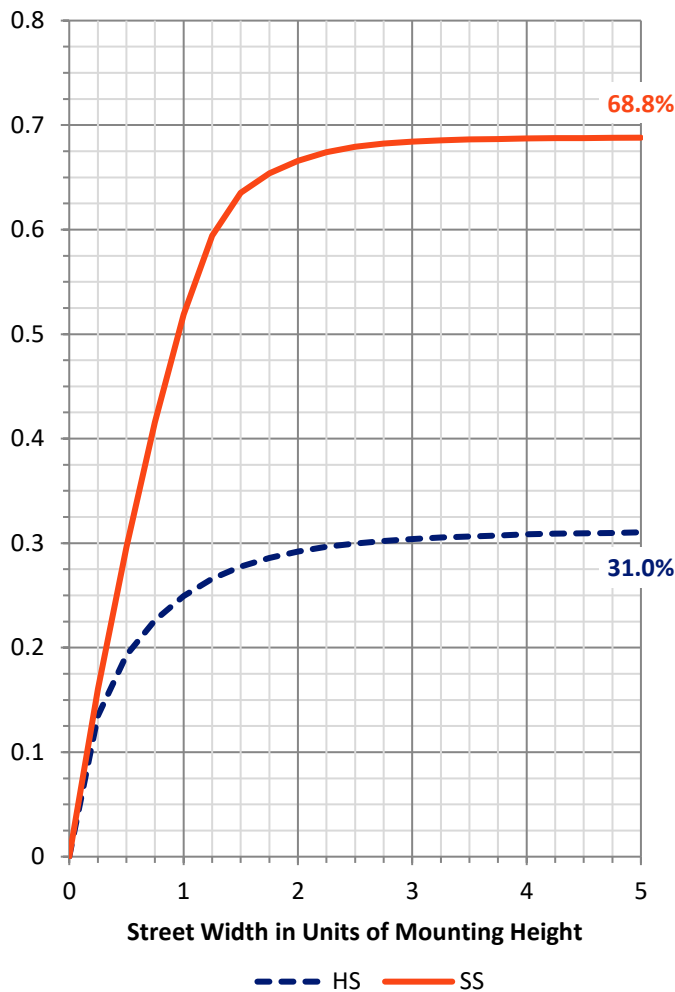
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4803.6	0.0	4803.6
	% Fixture	31.3	0.0	31.3
Street Side	Lumens	10560.0	0.0	10560.0
	% Fixture	68.7	0.0	68.7
Total	Lumens	15363.6	0.0	15363.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	443.7	2.9
10°-20°	1163.9	7.6
20°-30°	1714.9	11.2
30°-40°	2400.4	15.6
40°-50°	3155.5	20.5
50°-60°	3699.8	24.1
60°-70°	2179.6	14.2
70°-80°	542.2	3.5
80°-90°	63.6	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°	15363.6	100.0
0°-180°	15363.6	100.0

Coefficient of Utilization



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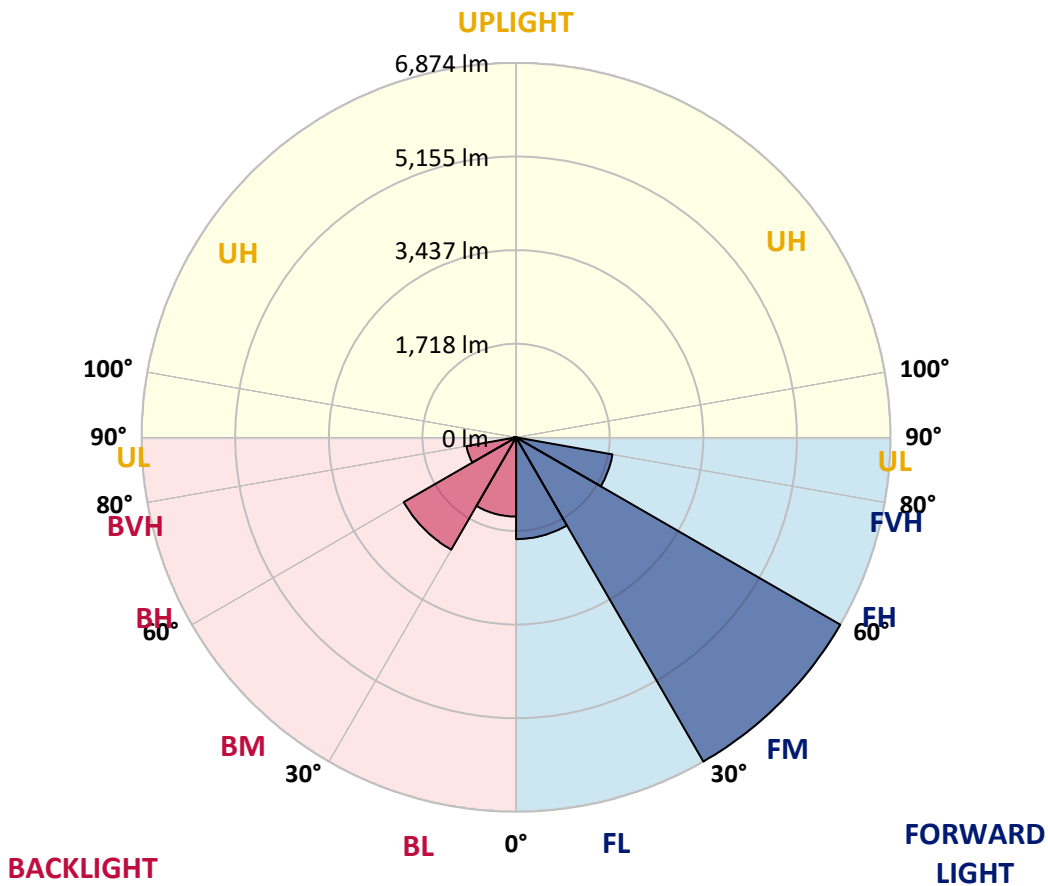
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1867.9	12.2			
FM (30°-60°)	6873.8	44.7			
FH (60°-80°)	1797.0	11.7			G1/1800
FVH (80°-90°)	21.3	0.1			G1/100
BL (0°-30°)	1454.6	9.5	B3/2500		
BM (30°-60°)	2381.9	15.5	B2/2500		
BH (60°-80°)	924.9	6.0	B2/1000		G2/1000
BVH (80°-90°)	42.3	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°	53°	55°	65°	75°	85°
0°	4906.0	4906.0	4906.0	4906.0	4906.0	4906.0	4906.0	4906.0	4906.0	4906.0	4906.0
2.5°	4624.1	4637.0	4639.6	4679.7	4682.3	4740.5	4779.3	4771.5	4811.6	4860.8	4899.5
5°	4403.0	4404.3	4417.2	4465.1	4490.9	4567.2	4631.9	4631.9	4709.5	4810.3	4897.0
7.5°	4220.7	4219.4	4231.0	4284.0	4326.7	4418.5	4506.4	4516.8	4625.4	4772.8	4913.8
10°	4051.3	4060.3	4073.3	4137.9	4192.2	4306.0	4410.8	4427.6	4564.6	4747.0	4937.0
12.5°	3942.7	3943.9	3963.3	4035.8	4105.6	4227.1	4337.0	4357.7	4515.5	4722.4	4953.9
15°	3872.8	3874.1	3894.8	3975.0	4056.4	4179.3	4291.8	4315.1	4487.0	4718.5	4986.2
17.5°	3841.8	3840.5	3859.9	3940.1	4029.3	4157.3	4277.6	4306.0	4500.0	4748.3	5043.1
20°	3841.8	3843.1	3853.4	3925.8	4016.4	4152.1	4291.8	4326.7	4550.4	4815.5	5131.0
22.5°	3896.1	3901.3	3906.4	3955.6	4026.7	4159.9	4329.3	4375.8	4659.0	4928.0	5246.1
25°	4002.1	4003.4	4008.6	4048.7	4081.0	4181.9	4391.4	4461.2	4828.4	5092.2	5390.9
27.5°	4144.4	4162.5	4167.7	4193.5	4193.5	4236.2	4488.3	4589.2	5057.3	5328.9	5575.8
30°	4343.5	4350.0	4359.0	4387.5	4356.4	4338.3	4630.6	4759.9	5322.4	5614.6	5798.2
32.5°	4518.1	4532.3	4581.4	4628.0	4572.4	4515.5	4840.1	4992.7	5577.1	5912.0	6034.9
35°	4666.8	4701.7	4796.1	4899.5	4860.8	4803.9	5118.1	5277.1	5786.6	6125.4	6244.4
37.5°	4846.5	4873.7	5003.0	5171.1	5206.0	5178.9	5456.9	5570.7	5926.3	6179.7	6358.2
40°	5028.9	5070.2	5237.0	5469.8	5603.0	5622.4	5769.8	5846.1	5974.1	6073.7	6336.2
42.5°	5215.1	5286.2	5515.1	5786.6	6023.2	6067.2	6033.6	6065.9	5958.6	5927.6	6234.0
45°	5442.6	5526.7	5785.3	6131.9	6443.5	6512.0	6292.2	6262.5	5956.0	5872.0	6170.7
47.5°	5711.6	5795.7	6042.6	6446.1	6844.4	6894.8	6557.3	6503.0	6046.5	5957.3	6256.0
50°	5949.5	6007.7	6228.9	6680.1	7218.1	7247.8	6849.5	6783.6	6271.5	6193.9	6522.4
52.5°	5707.7	5701.3	5934.0	6490.1	7412.0	7770.2	7299.5	7236.2	6706.0	6587.0	6934.9
55°	4842.7	4768.9	4977.1	5524.1	6870.2	8234.4	8106.4	7979.7	7285.3	6982.7	7321.5
57.5°	3540.5	3519.8	3570.2	4083.6	5503.4	7515.5	8600.4	8588.8	7785.7	7344.8	7706.9
60°	2768.5	2737.5	2603.0	2617.2	3751.3	5870.7	7463.8	7806.4	8096.1	7562.0	7975.8
62.5°	2458.2	2434.9	2365.1	2172.4	2234.5	3936.2	5471.1	5785.3	7074.5	6678.8	6850.8
65°	2035.3	2028.9	2087.1	2079.3	1872.4	2173.7	3087.9	3404.7	4448.3	4503.9	4448.3
67.5°	1479.3	1467.7	1615.1	1906.0	1802.6	1640.9	1721.1	1831.0	2281.0	2048.3	1844.0
70°	962.1	945.3	1030.6	1377.1	1613.8	1430.2	1240.1	1222.0	1254.3	779.7	843.1
72.5°	645.3	625.9	624.6	757.8	975.0	963.4	960.8	951.7	849.6	615.5	682.8
75°	359.5	344.0	340.1	327.2	349.1	355.6	378.9	391.8	424.1	466.8	517.2
77.5°	60.8	59.5	75.0	95.7	131.9	169.4	209.5	221.1	272.8	323.3	355.6
80°	33.6	34.9	45.3	55.6	73.7	100.9	129.3	137.1	168.1	195.3	221.1
82.5°	18.1	18.1	23.3	29.7	40.1	53.0	69.8	76.3	97.0	113.8	131.9
85°	6.5	6.5	9.1	11.6	16.8	22.0	27.2	31.0	42.7	58.2	65.9
87.5°	0.0	0.0	0.0	0.0	1.3	2.6	5.2	5.2	6.5	11.6	16.8
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°	4906.0	4906.0	4906.0	4906.0	4906.0	4906.0	4906.0	4906.0	4906.0	4906.0	4906.0
2.5°	4931.9	4897.0	4944.8	4966.8	4974.5	4979.7	4946.1	4922.8	4915.1	4890.5	4876.3
5°	4950.0	4926.7	4972.0	4972.0	4939.6	4906.0	4837.5	4789.6	4756.0	4715.9	4709.5
7.5°	4981.0	4964.2	4988.8	4938.3	4856.9	4766.4	4647.4	4554.3	4479.3	4430.2	4431.4
10°	5022.4	5001.7	4982.3	4869.8	4721.1	4554.3	4372.0	4236.2	4112.1	4055.2	4024.1
12.5°	5049.5	5019.8	4938.3	4752.1	4533.6	4309.9	4052.6	3850.8	3671.1	3589.6	3583.2
15°	5083.2	5028.9	4865.9	4599.5	4295.7	3990.5	3659.5	3378.9	3135.8	3009.0	3002.6
17.5°	5127.1	5037.9	4779.3	4425.0	4044.8	3594.8	3178.4	2825.4	2566.8	2468.5	2485.3
20°	5189.2	5048.3	4681.0	4231.0	3733.2	3144.8	2626.3	2301.7	2202.1	2195.7	2182.7
22.5°	5259.0	5054.7	4572.4	4013.8	3355.6	2665.1	2169.8	2031.5	2030.2	2062.5	2070.2
25°	5337.9	5059.9	4449.5	3760.3	2947.0	2186.6	1919.0	1877.6	1909.9	1970.7	1978.4
27.5°	5438.8	5070.2	4300.8	3482.3	2512.5	1889.2	1780.6	1770.3	1809.0	1865.9	1863.4
30°	5587.5	5107.7	4143.1	3162.9	2066.4	1748.3	1696.5	1697.8	1713.4	1740.5	1744.4
32.5°	5738.8	5165.9	3989.2	2803.4	1810.3	1668.1	1644.8	1642.2	1642.2	1653.9	1656.5
35°	5882.3	5231.9	3822.4	2428.4	1686.2	1621.5	1606.0	1598.3	1594.4	1591.8	1587.9
37.5°	5962.5	5264.2	3659.5	2058.6	1620.3	1590.5	1575.0	1564.6	1550.4	1540.1	1537.5
40°	5927.6	5226.7	3470.7	1781.9	1580.2	1560.8	1542.7	1528.4	1509.0	1500.0	1494.8
42.5°	5811.2	5110.3	3265.1	1651.3	1547.8	1528.4	1506.5	1483.2	1470.3	1462.5	1461.2
45°	5688.3	4969.4	3016.8	1575.0	1516.8	1493.5	1467.7	1441.8	1427.6	1423.7	1422.4
47.5°	5684.5	4899.5	2753.0	1514.2	1479.3	1456.0	1423.7	1397.8	1382.3	1377.1	1372.0
50°	5855.1	4970.7	2455.6	1461.2	1440.5	1415.9	1379.7	1351.3	1331.9	1325.4	1324.1
52.5°	6209.5	5238.3	2189.2	1408.2	1388.8	1360.3	1330.6	1302.1	1278.9	1267.2	1265.9
55°	6592.2	5578.4	2023.7	1353.9	1328.0	1303.4	1276.3	1245.3	1219.4	1201.3	1198.7
57.5°	6987.9	5949.5	1973.3	1285.3	1265.9	1249.1	1216.8	1183.2	1153.4	1136.6	1132.8
60°	7313.8	6268.9	2067.7	1212.9	1202.6	1180.6	1150.9	1118.5	1097.8	1084.9	1082.3
62.5°	6122.8	5103.9	1669.4	1134.0	1134.0	1110.8	1077.2	1053.9	1039.7	1030.6	1028.0
65°	3885.8	3160.3	1139.2	1055.2	1053.9	1022.8	994.4	978.9	972.4	958.2	955.6
67.5°	1692.7	1444.4	973.7	975.0	969.8	936.2	907.8	896.1	883.2	867.7	866.4
70°	878.0	894.8	871.5	885.8	876.7	836.6	809.5	791.4	764.2	748.7	750.0
72.5°	708.6	726.7	752.6	774.6	755.2	722.8	680.2	658.2	623.3	606.5	607.8
75°	540.5	559.9	584.5	607.8	592.2	552.2	525.0	503.0	462.9	443.5	447.4
77.5°	372.4	382.8	412.5	411.2	406.0	394.4	354.3	328.4	287.1	263.8	266.4
80°	231.5	237.9	252.2	258.6	256.0	240.5	208.2	188.8	164.2	150.0	151.3
82.5°	139.7	143.5	156.5	157.8	156.5	144.8	120.3	106.0	90.5	82.8	82.8
85°	71.1	73.7	81.5	81.5	73.7	62.1	55.6	49.1	40.1	36.2	36.2
87.5°	19.4	19.4	24.6	20.7	16.8	15.5	7.8	6.5	2.6	1.3	1.3
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)