

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: P640016

Luminaire Tested: GWS-SA5D-722-U-SL3-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640016
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-31)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5D-722-U-SL3-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS
Light Source: (80) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21681.5 lumens
Efficiency: N/A
Efficacy: 106.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

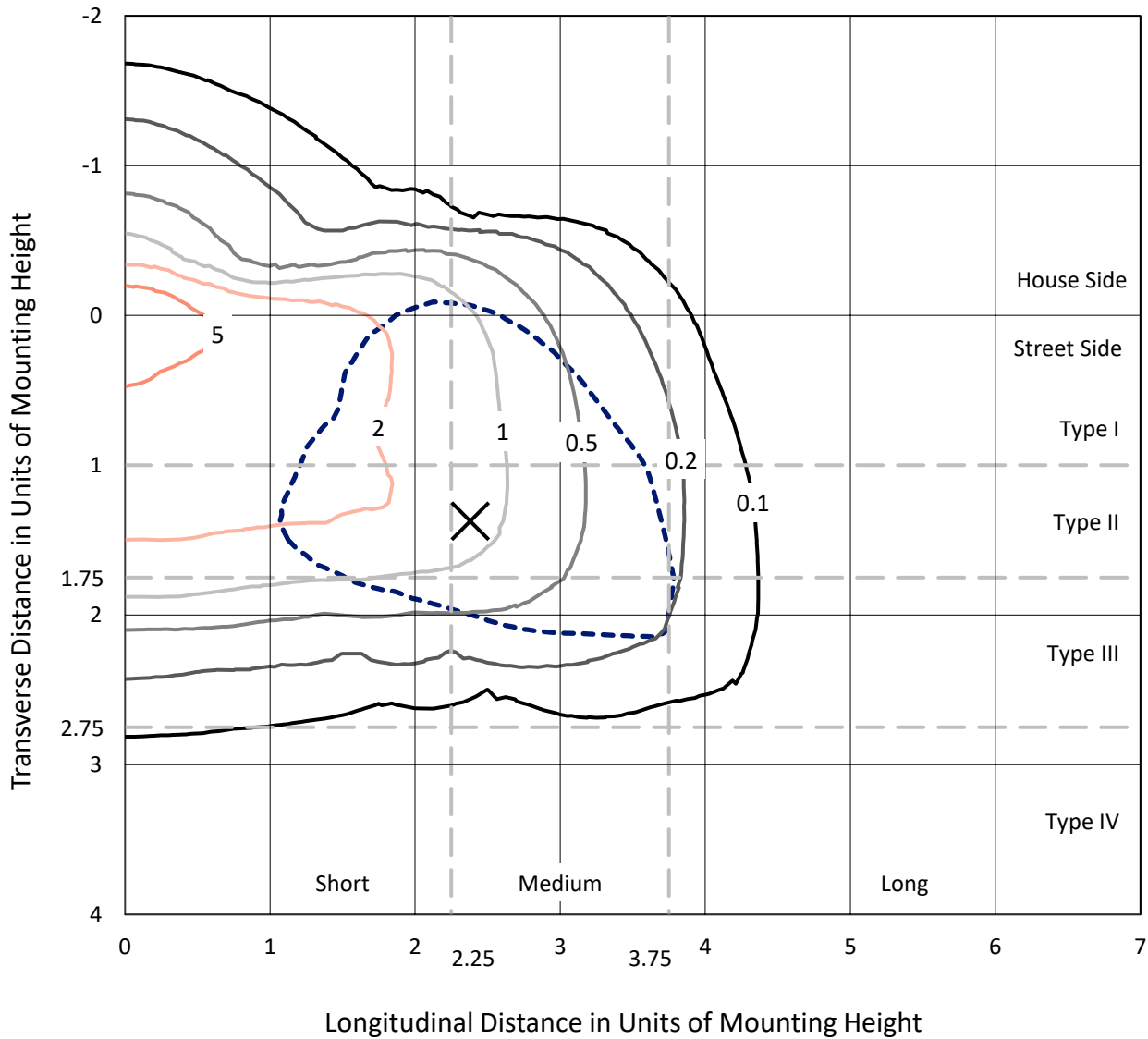
Input Watts (W): 204.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P640016
 CATALOG NUMBER: GWS-SA5D-722-U-SL3-W

Iso-Footcandle Lines of Horizontal Illumination

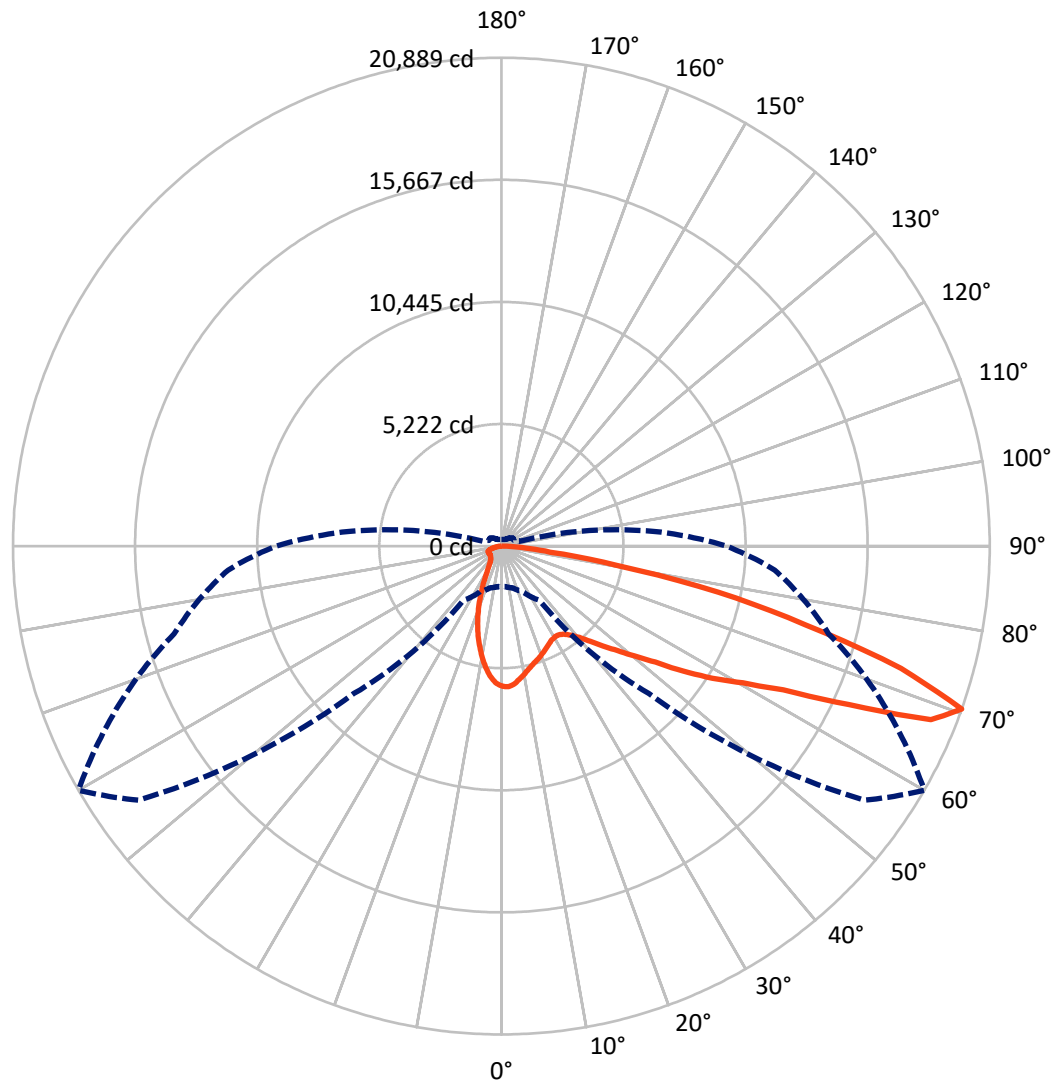
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 fc
 Type III - Medium - N/A

REPORT NUMBER: P640016
CATALOG NUMBER: GWS-SA5D-722-U-SL3-W

Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P640016

CATALOG NUMBER: GWS-SA5D-722-U-SL3-W

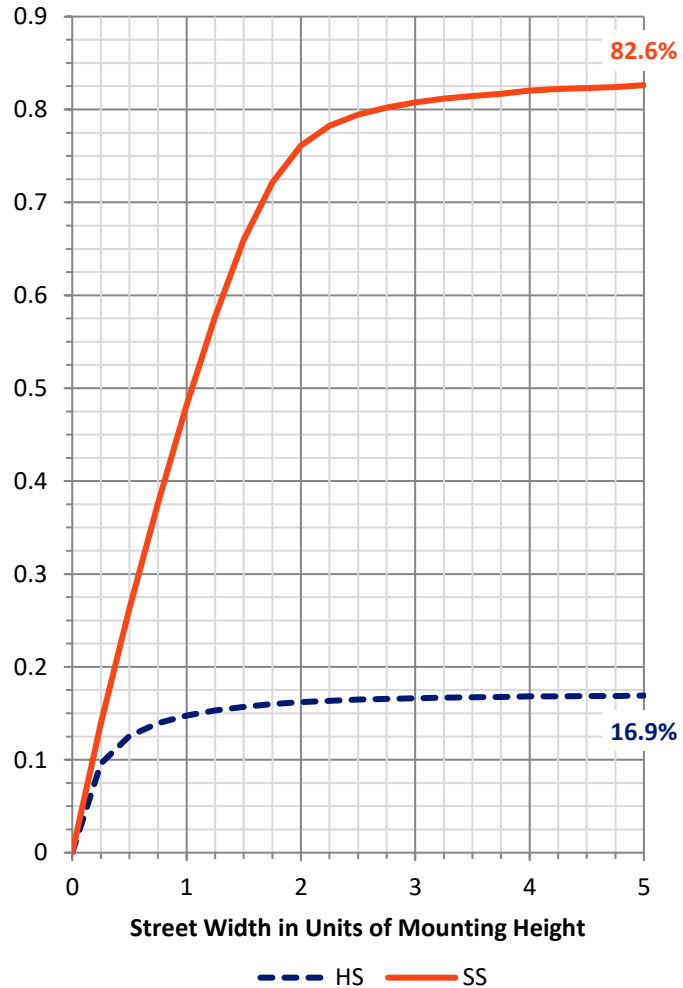
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3708.0	0.0	3708.0
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	17973.5	0.0	17973.5
	% Fixture	82.9	0.0	82.9
Total	Lumens	21681.5	0.0	21681.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	517.1	2.4
10°-20°	1158.6	5.3
20°-30°	1483.7	6.8
30°-40°	1950.0	9.0
40°-50°	2829.1	13.0
50°-60°	4414.0	20.4
60°-70°	5778.8	26.7
70°-80°	3195.5	14.7
80°-90°	354.6	1.6
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°	21681.5	100.0
0°-180°	21681.5	100.0

Coefficient of Utilization



REPORT NUMBER: P640016

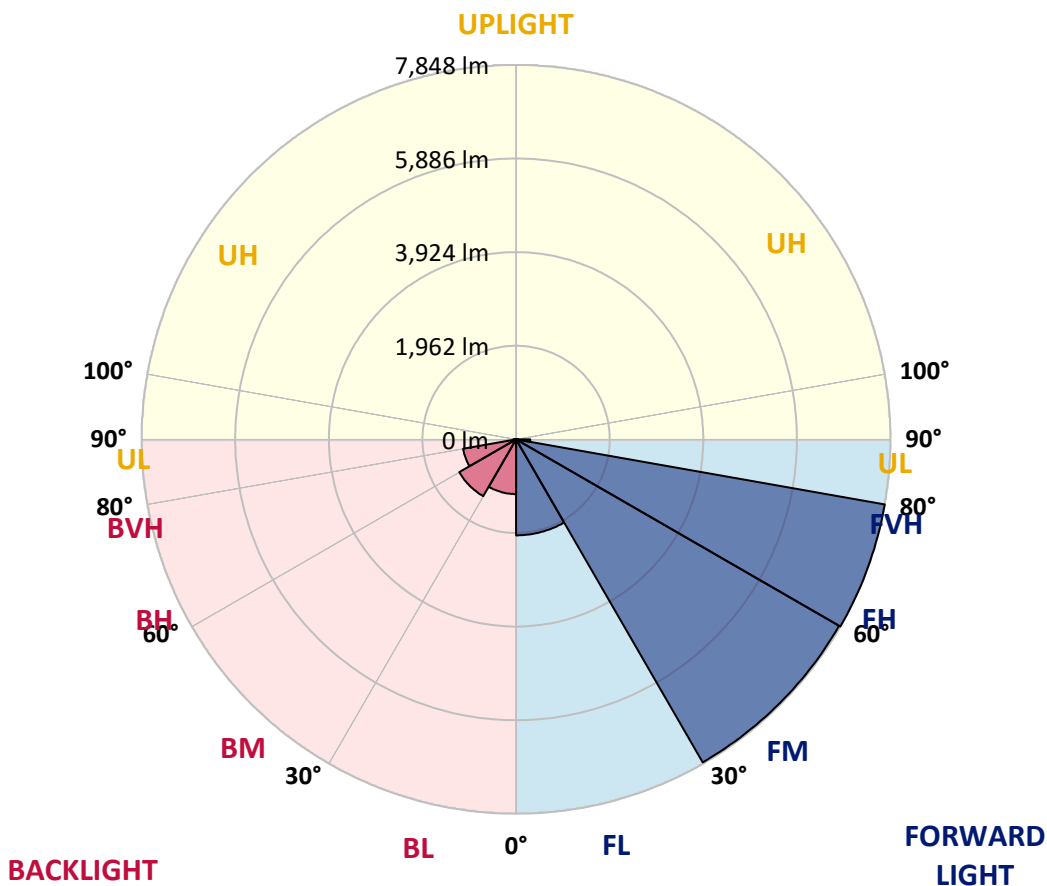
CATALOG NUMBER: GWS-SA5D-722-U-SL3-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2012.2	9.3			
FM (30°-60°)	7818.3	36.1			
FH (60°-80°)	7847.5	36.2			G4/12000
FVH (80°-90°)	295.5	1.4			G3/500
BL (0°-30°)	1147.2	5.3	B3/2500		
BM (30°-60°)	1374.8	6.3	B2/2500		
BH (60°-80°)	1126.9	5.2	B3/2500		G3/2500
BVH (80°-90°)	59.1	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 III Medium





REPORT NUMBER: P640016
 CATALOG NUMBER: GWS-SA5D-722-U-SL3-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	5999.6	5999.6	5999.6	5999.6	5999.6	5999.6	5999.6	5999.6	5999.6	5999.6	5999.6
2.5°	5915.5	5921.8	5939.3	5964.7	5990.0	6002.7	6034.5	6024.9	6018.6	6005.9	5990.0
5°	5653.7	5666.4	5682.3	5731.5	5787.0	5831.4	5902.8	5910.7	5913.9	5920.2	5894.9
7.5°	5320.6	5323.8	5361.8	5426.9	5499.9	5576.0	5695.0	5728.3	5756.8	5788.6	5767.9
10°	4952.6	4960.5	4989.1	5082.6	5208.0	5320.6	5480.8	5536.3	5596.6	5666.4	5637.9
12.5°	4651.2	4652.7	4698.7	4798.7	4935.1	5087.4	5287.3	5353.9	5433.2	5542.7	5517.3
15°	4411.6	4411.6	4454.5	4540.1	4697.2	4876.4	5114.4	5200.0	5307.9	5455.4	5411.0
17.5°	4221.3	4222.8	4249.8	4340.2	4479.8	4678.1	4960.5	5076.3	5195.3	5390.4	5323.8
20°	4121.3	4113.4	4118.1	4173.7	4292.6	4484.6	4806.6	4941.5	5101.7	5346.0	5244.5
22.5°	4116.6	4102.3	4081.7	4086.4	4156.2	4314.9	4641.6	4805.0	5006.5	5309.5	5163.5
25°	4197.5	4181.6	4145.1	4103.9	4097.5	4192.7	4486.2	4671.8	4908.1	5293.6	5085.8
27.5°	4333.9	4322.8	4275.2	4213.3	4148.3	4145.1	4368.8	4562.3	4836.8	5309.5	5030.3
30°	4514.7	4495.7	4465.6	4386.2	4287.9	4186.4	4322.8	4503.6	4789.2	5360.3	5006.5
32.5°	4719.4	4708.3	4679.7	4600.4	4495.7	4333.9	4359.3	4516.3	4789.2	5449.1	5011.3
35°	4936.7	4935.1	4935.1	4882.8	4767.0	4565.5	4503.6	4624.2	4862.1	5591.9	5062.0
37.5°	5147.7	5146.1	5196.9	5215.9	5084.2	4866.9	4749.5	4839.9	5022.4	5802.8	5187.3
40°	5319.0	5325.4	5436.4	5531.6	5458.6	5257.1	5092.2	5138.2	5282.5	6102.7	5406.3
42.5°	5491.9	5509.4	5675.9	5844.1	5872.6	5698.1	5531.6	5558.5	5655.3	6499.2	5733.0
45°	5680.7	5688.6	5921.8	6156.6	6294.6	6191.5	6055.1	6091.6	6113.8	6989.4	6220.1
47.5°	5863.1	5883.7	6185.2	6507.2	6768.9	6759.4	6683.3	6672.2	6676.9	7585.9	6795.9
50°	6112.2	6142.3	6496.1	6884.7	7268.6	7444.7	7466.9	7382.8	7347.9	8249.0	7512.9
52.5°	6584.9	6584.9	6902.2	7284.5	7800.1	8236.3	8385.4	8247.4	8136.4	8950.2	8274.4
55°	7176.6	7202.0	7454.2	7763.6	8417.1	9069.1	9573.6	9421.3	9107.2	9713.2	9072.3
57.5°	7440.0	7471.7	7871.4	8352.1	9224.6	10016.2	10715.8	10661.8	10203.4	10506.4	9900.4
60°	6964.0	7030.7	7581.1	8387.0	9955.9	11543.8	12037.2	11880.1	11225.0	11339.2	10798.2
62.5°	5809.2	5882.2	6492.9	7617.6	9854.4	13195.2	14120.0	13541.0	12500.4	12390.9	11994.3
65°	3466.2	3463.0	4197.5	5688.6	8602.7	13653.7	17416.5	16336.2	14470.6	13834.5	13225.3
67.5°	2203.4	2198.7	2352.5	3014.1	5725.1	12530.5	19535.8	19816.6	17146.8	14895.8	13326.9
70°	1738.6	1737.0	1848.1	2149.5	2831.6	8916.8	18945.7	20889.0	18763.3	14491.2	11734.2
72.5°	1267.5	1270.7	1442.0	1800.5	2184.4	4476.7	15341.5	17873.3	17257.8	12792.3	9526.0
75°	910.6	915.3	1018.4	1378.5	2014.7	2447.7	10201.8	13439.5	13130.2	10254.1	6553.2
77.5°	579.0	585.4	675.8	966.1	1627.6	1976.6	6185.2	9487.9	8736.0	5777.5	2330.3
80°	353.8	374.4	450.5	720.2	1300.8	1483.2	3091.8	4998.6	4375.1	1584.8	783.7
82.5°	182.4	198.3	271.3	445.8	896.3	1302.4	1749.7	2100.3	1354.7	663.1	417.2
85°	57.1	66.6	95.2	180.8	426.7	807.4	1158.0	1043.8	621.8	312.5	193.5
87.5°	14.3	14.3	15.9	15.9	17.4	36.5	223.7	236.4	165.0	98.4	79.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P640016
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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5999.6	5999.6	5999.6	5999.6	5999.6	5999.6	5999.6	5999.6	5999.6	5999.6	5999.6
2.5°	5958.3	5920.2	5904.4	5902.8	5863.1	5806.0	5767.9	5741.0	5725.1	5721.9	5721.9
5°	5852.0	5802.8	5737.8	5688.6	5582.3	5474.5	5384.1	5333.3	5274.6	5266.7	5265.1
7.5°	5710.8	5639.5	5515.7	5377.7	5192.1	5012.8	4860.6	4757.4	4654.3	4635.3	4629.0
10°	5558.5	5461.8	5250.8	5008.1	4730.5	4462.4	4229.2	4046.8	3926.2	3840.5	3824.7
12.5°	5407.8	5279.4	4970.0	4608.3	4227.6	3861.2	3510.6	3212.3	2996.6	2871.3	2849.1
15°	5266.7	5087.4	4663.9	4202.2	3707.3	3206.0	2709.5	2322.4	2019.4	1911.5	1886.2
17.5°	5138.2	4914.5	4367.2	3781.8	3164.8	2509.6	1944.9	1600.6	1423.0	1369.0	1356.3
20°	5009.7	4736.8	4065.8	3339.3	2588.9	1854.4	1421.4	1259.6	1192.9	1172.3	1166.0
22.5°	4871.7	4541.7	3737.4	2903.0	2006.7	1388.1	1162.8	1091.4	1070.8	1072.4	1070.8
25°	4733.6	4343.4	3393.2	2428.7	1494.3	1126.3	1015.3	988.3	993.1	1007.3	1010.5
27.5°	4619.4	4167.3	3055.3	1908.4	1167.5	969.3	916.9	915.3	932.8	951.8	955.0
30°	4536.9	4010.3	2722.2	1467.4	961.3	861.4	840.8	850.3	870.9	885.2	889.9
32.5°	4478.2	3875.4	2366.8	1153.3	842.3	785.2	775.7	785.2	797.9	812.2	815.4
35°	4457.6	3777.1	2017.8	940.7	761.4	729.7	723.4	728.1	734.5	742.4	745.6
37.5°	4503.6	3727.9	1653.0	818.6	712.3	693.2	683.7	680.5	682.1	685.3	686.9
40°	4640.1	3750.1	1354.7	747.2	680.5	663.1	647.2	640.9	639.3	642.5	640.9
42.5°	4874.8	3843.7	1139.0	705.9	655.2	629.8	612.3	606.0	606.0	613.9	613.9
45°	5219.1	4027.7	983.5	675.8	633.0	601.2	582.2	579.0	585.4	598.1	599.6
47.5°	5723.5	4297.4	889.9	653.6	612.3	575.8	556.8	555.2	567.9	588.5	590.1
50°	6321.6	4686.1	839.2	637.7	598.1	555.2	536.2	537.8	552.0	574.3	579.0
52.5°	7041.8	5215.9	842.3	631.4	590.1	542.5	523.5	520.3	534.6	556.8	561.6
55°	7785.8	5860.0	904.2	633.0	579.0	536.2	510.8	499.7	512.4	528.3	529.8
57.5°	8604.3	6586.5	1058.1	629.8	564.7	529.8	499.7	474.3	482.2	491.8	496.5
60°	9527.6	7441.5	1389.6	636.1	558.4	515.6	477.5	444.2	442.6	448.9	450.5
62.5°	10761.8	8604.3	1762.4	647.2	572.7	498.1	444.2	409.3	402.9	406.1	407.7
65°	11705.6	9159.5	1645.0	637.7	602.8	485.4	412.4	376.0	363.3	360.1	360.1
67.5°	11321.7	8425.1	1145.3	612.3	617.1	487.0	387.1	341.1	325.2	317.3	315.7
70°	9633.9	6843.5	796.3	586.9	601.2	483.8	360.1	312.5	291.9	280.8	279.2
72.5°	7611.3	5225.4	644.1	536.2	545.7	436.2	320.4	280.8	263.3	249.1	249.1
75°	4898.6	3188.6	537.8	477.5	445.8	339.5	277.6	250.6	233.2	218.9	218.9
77.5°	1648.2	1183.4	417.2	404.5	333.1	255.4	233.2	215.7	201.5	188.8	187.2
80°	669.4	561.6	306.2	306.2	233.2	195.1	182.4	174.5	165.0	149.1	149.1
82.5°	388.7	341.1	214.2	185.6	155.5	134.8	126.9	119.0	119.0	107.9	107.9
85°	187.2	188.8	128.5	114.2	88.8	77.7	74.6	69.8	68.2	61.9	60.3
87.5°	101.5	103.1	65.0	50.8	34.9	30.1	25.4	23.8	22.2	20.6	20.6
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)