

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: P637706

Luminaire Tested: GWS-SA4D-735-U-SL3-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637706
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-SA4D-735-U-SL3-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23665.9 lumens
Efficiency: N/A
Efficacy: 146.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

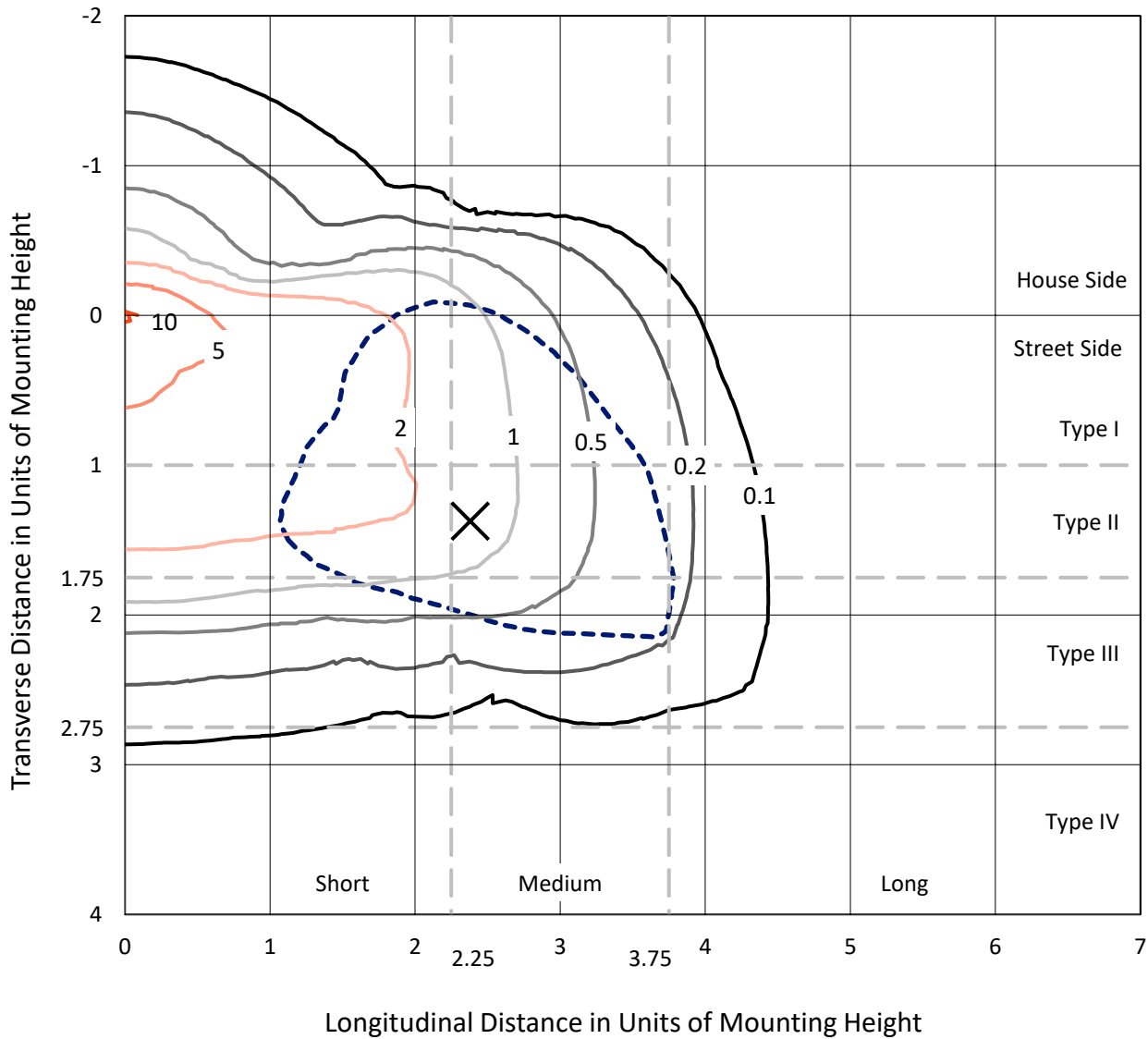
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

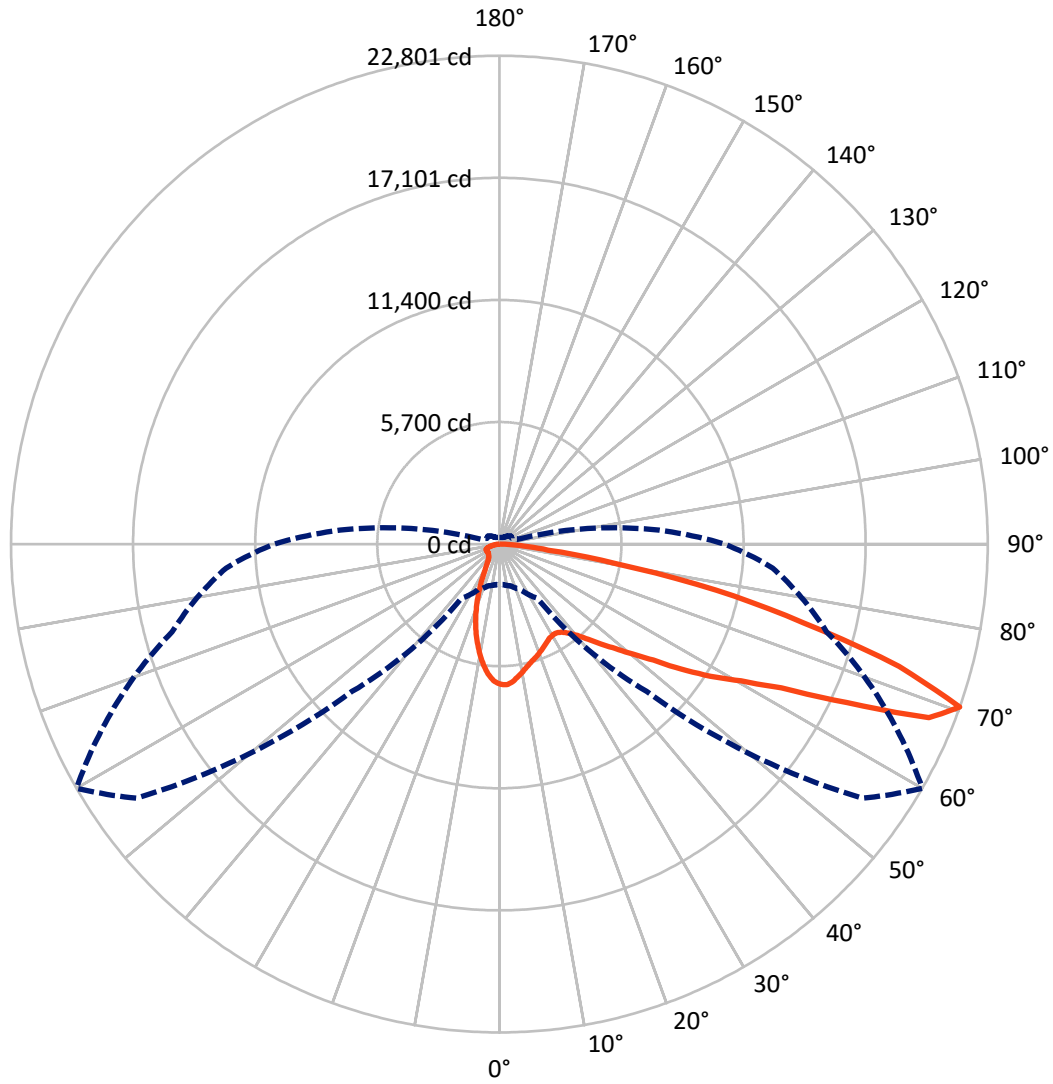
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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

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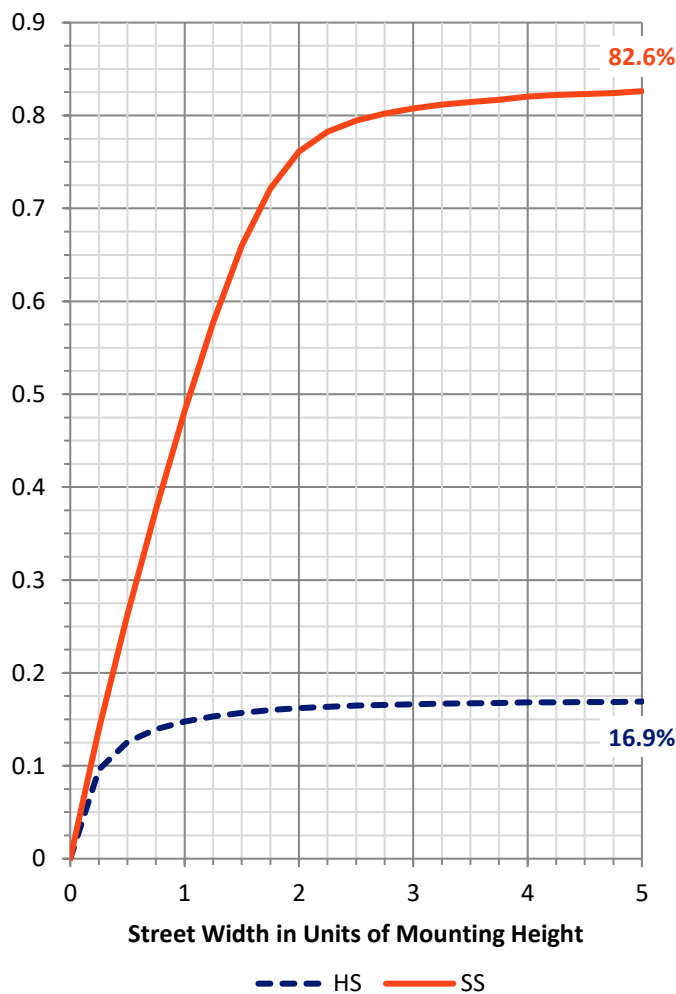
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4047.4	0.0	4047.4
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	19618.5	0.0	19618.5
	% Fixture	82.9	0.0	82.9
Total	Lumens	23665.9	0.0	23665.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	564.5	2.4
10°-20°	1264.6	5.3
20°-30°	1619.5	6.8
30°-40°	2128.4	9.0
40°-50°	3088.0	13.0
50°-60°	4818.0	20.4
60°-70°	6307.8	26.7
70°-80°	3488.0	14.7
80°-90°	387.1	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°	23665.9	100.0
0°-180°	23665.9	100.0

Coefficient of Utilization



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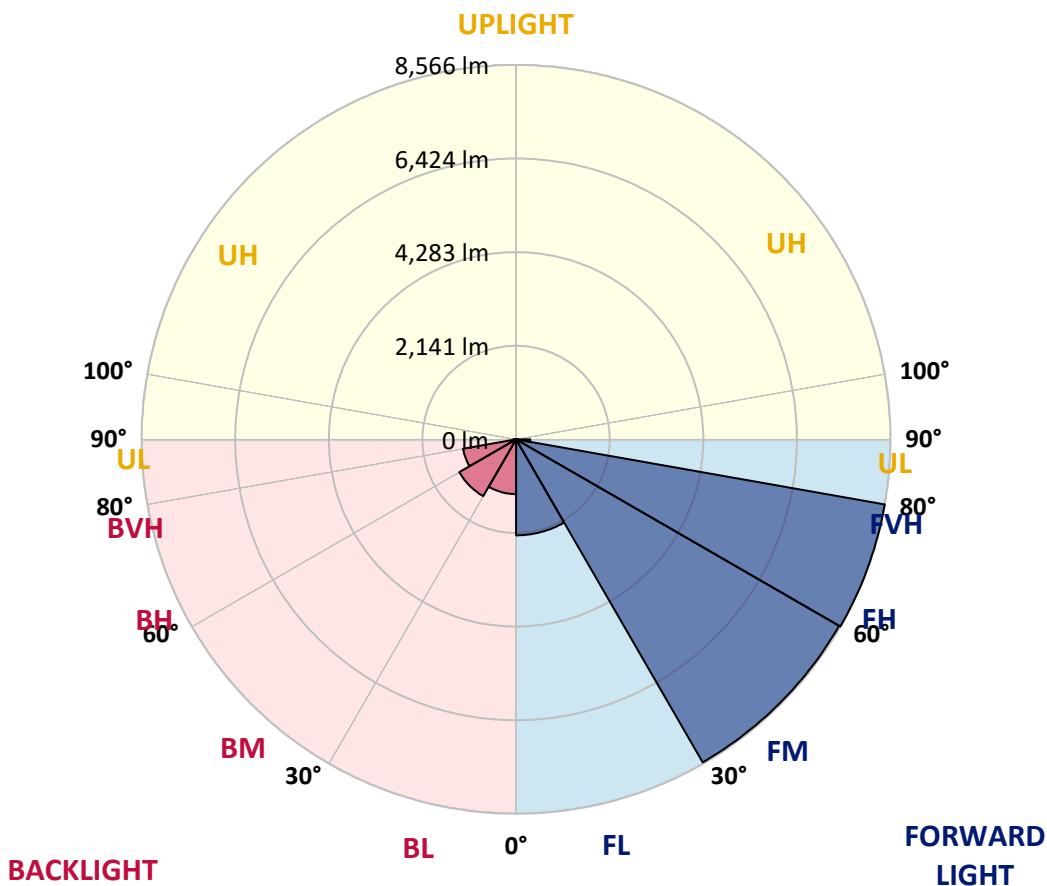
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2196.3	9.3			
FM (30°-60°)	8533.8	36.1			
FH (60°-80°)	8565.7	36.2			G4/12000
FVH (80°-90°)	322.5	1.4			G3/500
BL (0°-30°)	1252.2	5.3	B3/2500		
BM (30°-60°)	1500.7	6.3	B2/2500		
BH (60°-80°)	1230.0	5.2	B3/2500		G3/2500
BVH (80°-90°)	64.5	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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	6548.7	6548.7	6548.7	6548.7	6548.7	6548.7	6548.7	6548.7	6548.7	6548.7	6548.7
2.5°	6456.9	6463.8	6482.9	6510.6	6538.3	6552.1	6586.8	6576.4	6569.4	6555.6	6538.3
5°	6171.2	6185.0	6202.4	6256.0	6316.6	6365.1	6443.0	6451.7	6455.2	6462.1	6434.4
7.5°	5807.6	5811.0	5852.6	5923.6	6003.2	6086.3	6216.2	6252.6	6283.7	6318.4	6295.9
10°	5405.8	5414.5	5445.7	5547.8	5684.6	5807.6	5982.4	6043.1	6108.9	6185.0	6153.9
12.5°	5076.9	5078.6	5128.8	5237.9	5386.8	5553.0	5771.2	5843.9	5930.5	6050.0	6022.3
15°	4815.4	4815.4	4862.1	4955.6	5127.1	5322.7	5582.5	5676.0	5793.7	5954.7	5906.3
17.5°	4607.6	4609.3	4638.8	4737.5	4889.9	5106.3	5414.5	5540.9	5670.8	5883.8	5811.0
20°	4498.5	4489.9	4495.1	4555.7	4685.5	4895.0	5246.5	5393.7	5568.6	5835.3	5724.5
22.5°	4493.3	4477.7	4455.2	4460.4	4536.6	4709.8	5066.5	5244.8	5464.7	5795.4	5636.1
25°	4581.6	4564.3	4524.5	4479.5	4472.6	4576.4	4896.8	5099.4	5357.4	5778.1	5551.3
27.5°	4730.6	4718.4	4666.5	4599.0	4528.0	4524.5	4768.6	4979.9	5279.4	5795.4	5490.7
30°	4927.9	4907.2	4874.3	4787.7	4680.3	4569.5	4718.4	4915.8	5227.5	5850.9	5464.7
32.5°	5151.3	5139.2	5108.0	5021.4	4907.2	4730.6	4758.3	4929.7	5227.5	5947.8	5469.9
35°	5388.5	5386.8	5386.8	5329.7	5203.3	4983.4	4915.8	5047.4	5307.2	6103.7	5525.3
37.5°	5618.8	5617.1	5672.5	5693.3	5549.6	5312.3	5184.2	5282.9	5482.0	6334.0	5662.1
40°	5805.8	5812.8	5934.0	6037.9	5958.2	5738.3	5558.2	5608.4	5766.0	6661.2	5901.1
42.5°	5994.6	6013.6	6195.4	6379.0	6410.1	6219.7	6037.9	6067.3	6172.9	7094.1	6257.8
45°	6200.6	6209.3	6463.8	6720.1	6870.7	6758.2	6609.3	6649.1	6673.3	7629.1	6789.3
47.5°	6399.7	6422.3	6751.3	7102.8	7388.5	7378.1	7295.0	7282.8	7288.0	8280.2	7417.9
50°	6671.6	6704.5	7090.6	7514.9	7933.9	8126.1	8150.3	8058.6	8020.5	9004.0	8200.5
52.5°	7187.6	7187.6	7533.9	7951.2	8514.0	8990.1	9152.9	9002.2	8881.0	9769.3	9031.7
55°	7833.5	7861.2	8136.5	8474.1	9187.5	9899.2	10449.8	10283.6	9940.7	10602.2	9902.6
57.5°	8120.9	8155.5	8591.9	9116.5	10068.9	10932.9	11696.5	11637.6	11137.2	11467.9	10806.5
60°	7601.4	7674.2	8275.0	9154.6	10867.1	12600.4	13138.9	12967.5	12252.3	12377.0	11786.6
62.5°	6340.9	6420.5	7087.2	8314.8	10756.3	14402.9	15412.4	14780.4	13644.5	13525.0	13092.1
65°	3783.4	3779.9	4581.6	6209.3	9390.1	14903.3	19010.5	17831.3	15795.1	15100.7	14435.8
67.5°	2405.1	2399.9	2567.9	3289.9	6249.1	13677.4	21323.8	21630.3	18716.1	16259.1	14546.6
70°	1897.8	1896.0	2017.2	2346.2	3090.8	9733.0	20679.7	22800.8	20480.6	15817.6	12808.2
72.5°	1383.5	1387.0	1574.0	1965.3	2384.3	4886.4	16745.7	19509.2	18837.4	13963.1	10397.9
75°	993.9	999.1	1111.6	1504.7	2199.0	2671.8	11135.5	14669.6	14331.9	11192.6	7153.0
77.5°	632.0	638.9	737.6	1054.5	1776.6	2157.5	6751.3	10356.3	9535.6	6306.2	2543.6
80°	386.1	408.6	491.8	786.1	1419.9	1619.0	3374.8	5456.1	4775.6	1729.8	855.4
82.5°	199.1	216.4	296.1	486.6	978.3	1421.6	1909.9	2292.6	1478.7	723.8	455.4
85°	62.3	72.7	103.9	197.4	465.8	881.4	1264.0	1139.3	678.8	341.1	211.2
87.5°	15.6	15.6	17.3	17.3	19.0	39.8	244.1	258.0	180.1	107.4	86.6
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°	6548.7	6548.7	6548.7	6548.7	6548.7	6548.7	6548.7	6548.7	6548.7	6548.7	6548.7
2.5°	6503.6	6462.1	6444.8	6443.0	6399.7	6337.4	6295.9	6266.4	6249.1	6245.6	6245.6
5°	6387.6	6334.0	6263.0	6209.3	6093.3	5975.5	5876.8	5821.4	5757.3	5748.7	5747.0
7.5°	6233.5	6155.6	6020.5	5869.9	5667.3	5471.6	5305.4	5192.9	5080.3	5059.5	5052.6
10°	6067.3	5961.7	5731.4	5466.5	5163.4	4870.8	4616.3	4417.1	4285.5	4192.0	4174.7
12.5°	5902.8	5762.5	5424.9	5030.1	4614.5	4214.6	3831.9	3506.4	3270.9	3134.1	3109.8
15°	5748.7	5553.0	5090.7	4586.8	4046.6	3499.4	2957.5	2535.0	2204.2	2086.5	2058.8
17.5°	5608.4	5364.3	4766.9	4128.0	3454.4	2739.3	2122.9	1747.1	1553.2	1494.3	1480.5
20°	5468.2	5170.4	4437.9	3644.9	2825.9	2024.2	1551.5	1374.8	1302.1	1279.6	1272.7
22.5°	5317.5	4957.4	4079.5	3168.7	2190.4	1515.1	1269.2	1191.3	1168.8	1170.5	1168.8
25°	5166.9	4740.9	3703.8	2651.0	1631.1	1229.4	1108.2	1078.7	1083.9	1099.5	1103.0
27.5°	5042.2	4548.7	3334.9	2083.0	1274.4	1058.0	1000.8	999.1	1018.1	1038.9	1042.4
30°	4952.2	4377.3	2971.3	1601.7	1049.3	940.2	917.7	928.1	950.6	966.2	971.4
32.5°	4888.1	4230.1	2583.4	1258.8	919.4	857.1	846.7	857.1	871.0	886.5	890.0
35°	4865.6	4122.8	2202.5	1026.8	831.1	796.5	789.6	794.8	801.7	810.4	813.8
37.5°	4915.8	4069.1	1804.3	893.5	777.5	756.7	746.3	742.8	744.6	748.0	749.8
40°	5064.7	4093.3	1478.7	815.6	742.8	723.8	706.5	699.5	697.8	701.3	699.5
42.5°	5321.0	4195.5	1243.2	770.5	715.1	687.4	668.4	661.4	661.4	670.1	670.1
45°	5696.7	4396.4	1073.6	737.6	690.9	656.3	635.5	632.0	638.9	652.8	654.5
47.5°	6247.4	4690.7	971.4	713.4	668.4	628.5	607.8	606.0	619.9	642.4	644.1
50°	6900.2	5115.0	916.0	696.1	652.8	606.0	585.3	587.0	602.6	626.8	632.0
52.5°	7686.3	5693.3	919.4	689.2	644.1	592.2	571.4	567.9	583.5	607.8	613.0
55°	8498.4	6396.3	987.0	690.9	632.0	585.3	557.6	545.4	559.3	576.6	578.3
57.5°	9391.8	7189.3	1154.9	687.4	616.4	578.3	545.4	517.7	526.4	536.8	542.0
60°	10399.6	8122.6	1516.8	694.3	609.5	562.7	521.2	484.8	483.1	490.0	491.8
62.5°	11746.7	9391.8	1923.7	706.5	625.1	543.7	484.8	446.7	439.8	443.3	445.0
65°	12777.0	9997.9	1795.6	696.1	658.0	529.8	450.2	410.4	396.5	393.1	393.1
67.5°	12358.0	9196.2	1250.2	668.4	673.6	531.6	422.5	372.3	355.0	346.3	344.6
70°	10515.6	7469.8	869.2	640.7	656.3	528.1	393.1	341.1	318.6	306.5	304.7
72.5°	8307.9	5703.7	703.0	585.3	595.6	476.2	349.8	306.5	287.4	271.9	271.9
75°	5347.0	3480.4	587.0	521.2	486.6	370.5	303.0	273.6	254.5	239.0	239.0
77.5°	1799.1	1291.7	455.4	441.5	363.6	278.8	254.5	235.5	219.9	206.1	204.3
80°	730.7	613.0	334.2	334.2	254.5	213.0	199.1	190.5	180.1	162.8	162.8
82.5°	424.2	372.3	233.8	202.6	169.7	147.2	138.5	129.9	129.9	117.7	117.7
85°	204.3	206.1	140.3	124.7	97.0	84.8	81.4	76.2	74.5	67.5	65.8
87.5°	110.8	112.5	71.0	55.4	38.1	32.9	27.7	26.0	24.2	22.5	22.5
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)