

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: P640511

Luminaire Tested: GWS-SA5E-722-U-SL3-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640511
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-SA5E-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: 27094.2 lumens
Efficiency: N/A
Efficacy: 100.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

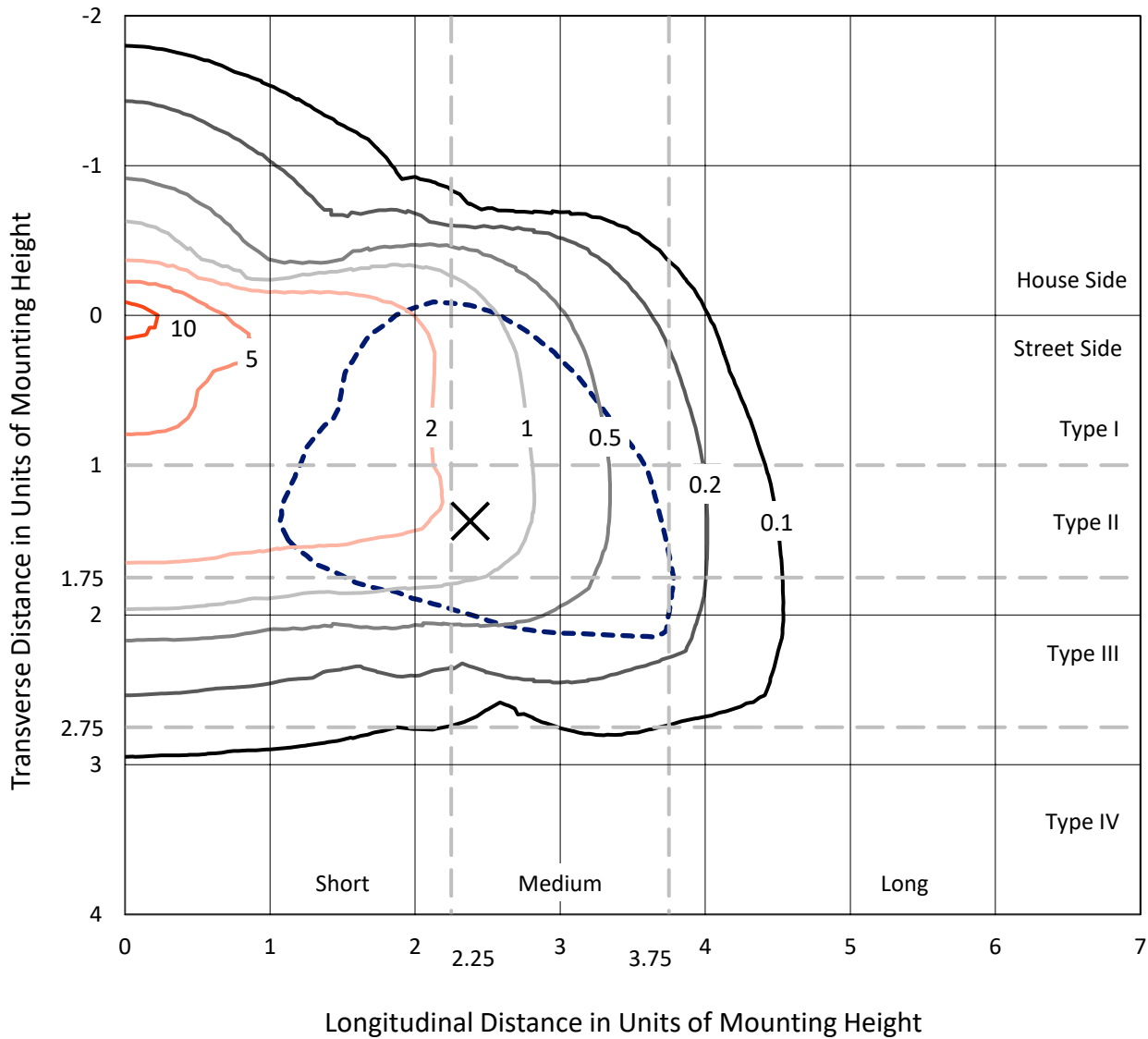
Input Watts (W): 269.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

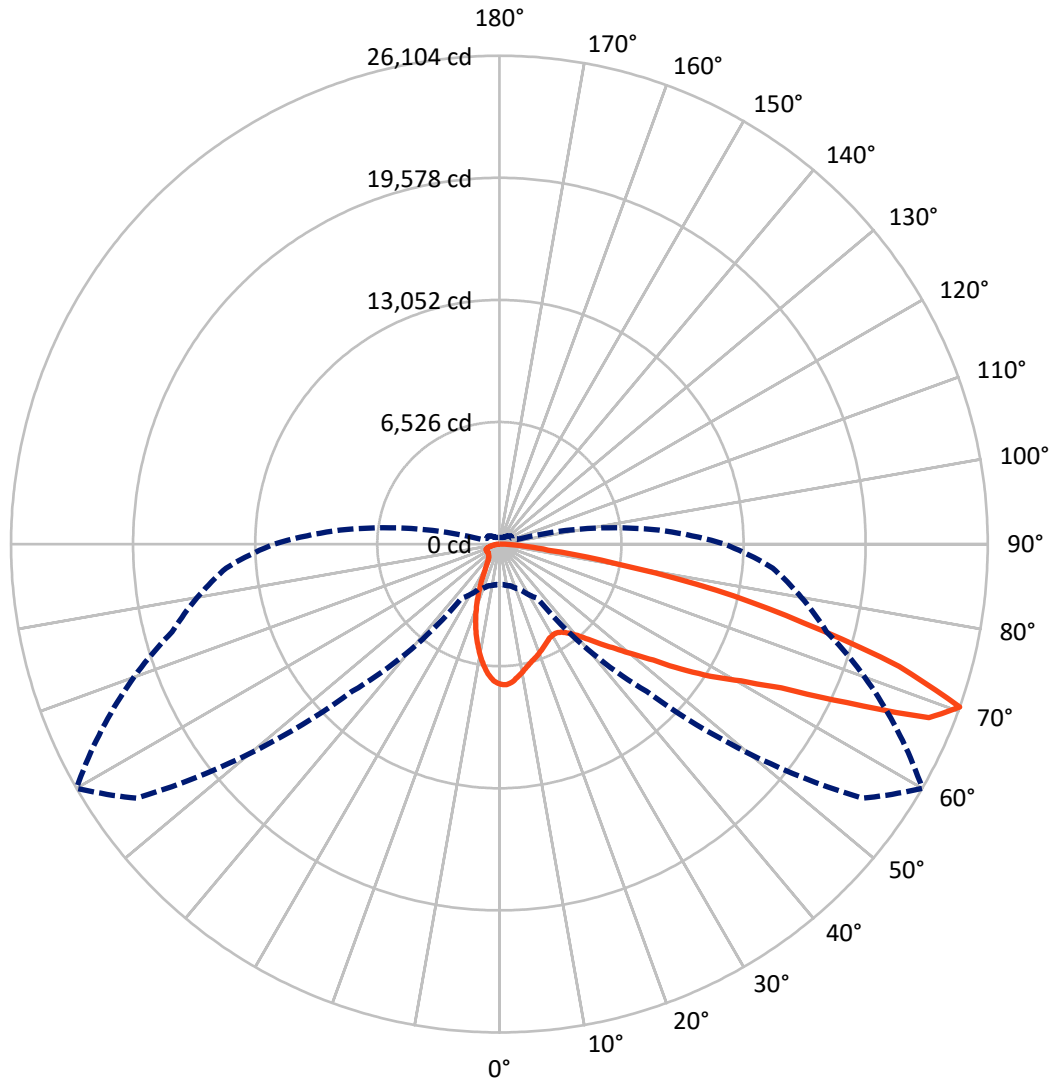
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12 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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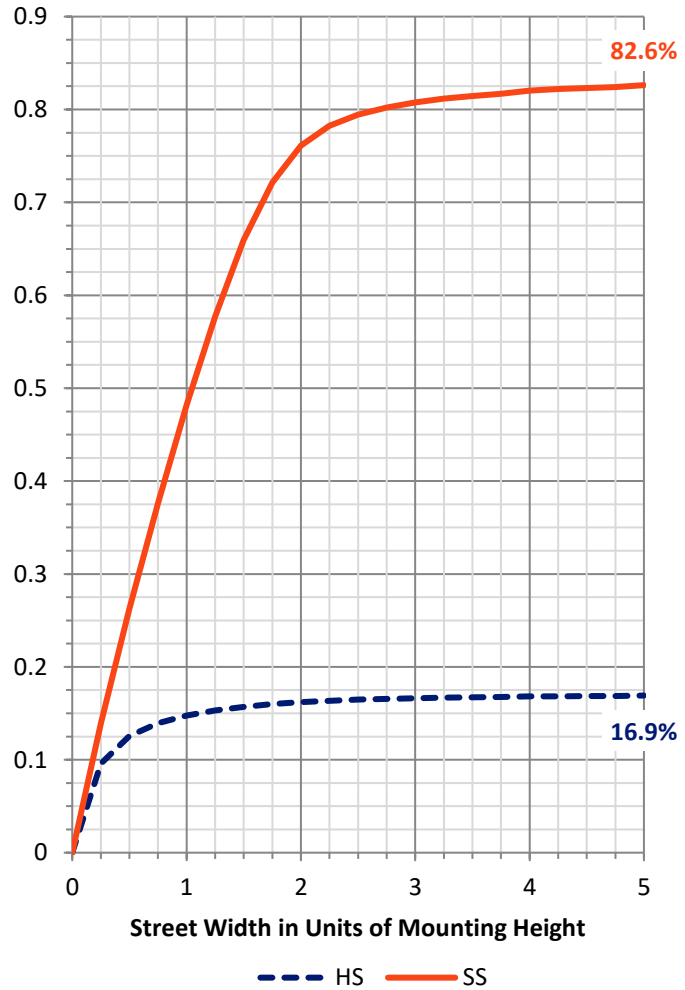
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4633.7	0.0	4633.7
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	22460.5	0.0	22460.5
	% Fixture	82.9	0.0	82.9
Total	Lumens	27094.2	0.0	27094.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	646.2	2.4
10°-20°	1447.8	5.3
20°-30°	1854.1	6.8
30°-40°	2436.8	9.0
40°-50°	3535.4	13.0
50°-60°	5516.0	20.4
60°-70°	7221.5	26.7
70°-80°	3993.3	14.7
80°-90°	443.2	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°	27094.2	100.0
0°-180°	27094.2	100.0

Coefficient of Utilization



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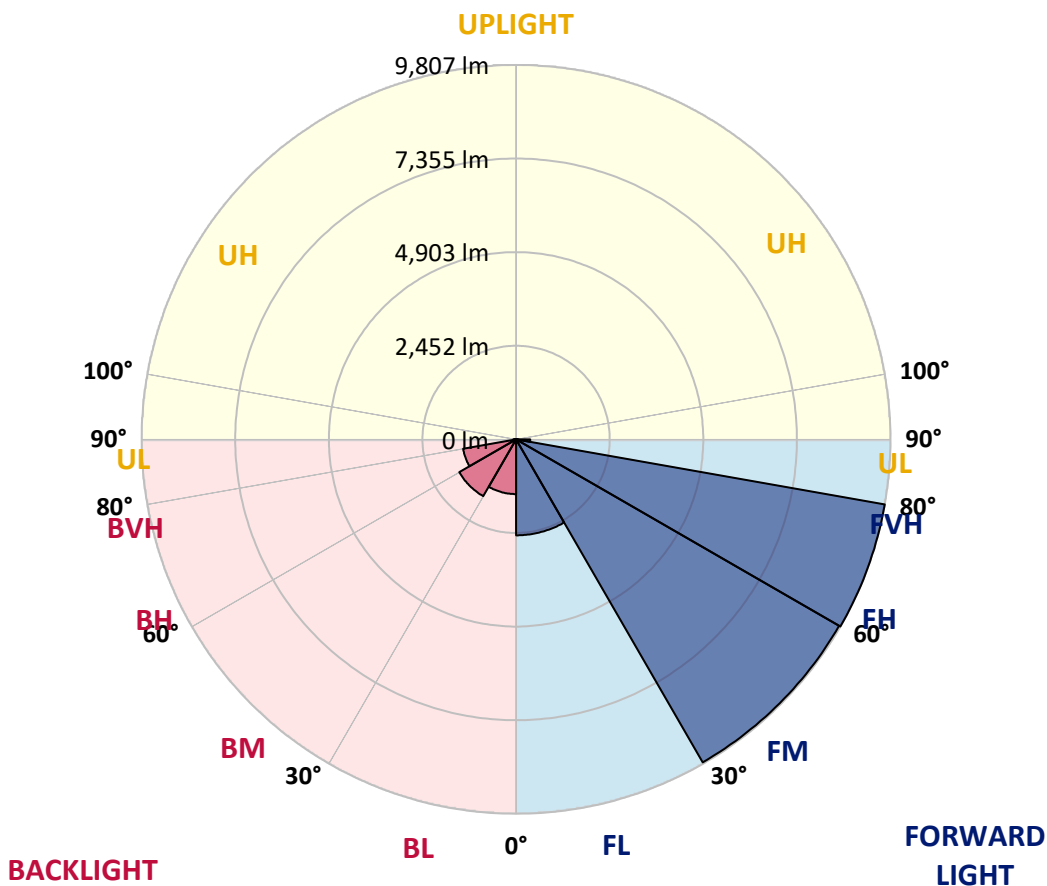
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2514.5	9.3			
FM (30°-60°)	9770.1	36.1			
FH (60°-80°)	9806.6	36.2			G4/12000
FVH (80°-90°)	369.3	1.4			G3/500
BL (0°-30°)	1433.6	5.3	B3/2500		
BM (30°-60°)	1718.0	6.3	B2/2500		
BH (60°-80°)	1408.2	5.2	B3/2500		G3/2500
BVH (80°-90°)	73.9	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°	7497.3	7497.3	7497.3	7497.3	7497.3	7497.3	7497.3	7497.3	7497.3	7497.3	7497.3
2.5°	7392.3	7400.2	7422.0	7453.7	7485.4	7501.3	7540.9	7529.0	7521.1	7505.2	7485.4
5°	7065.2	7081.0	7100.8	7162.3	7231.7	7287.2	7376.4	7386.3	7390.3	7398.2	7366.5
7.5°	6648.9	6652.8	6700.4	6781.7	6872.9	6968.0	7116.7	7158.3	7194.0	7233.7	7207.9
10°	6189.0	6198.9	6234.5	6351.5	6508.1	6648.9	6849.1	6918.5	6993.8	7081.0	7045.3
12.5°	5812.3	5814.3	5871.8	5996.7	6167.1	6357.5	6607.2	6690.5	6789.6	6926.4	6894.7
15°	5513.0	5513.0	5566.5	5673.5	5869.8	6093.8	6391.2	6498.2	6633.0	6817.4	6761.9
17.5°	5275.1	5277.1	5310.8	5423.8	5598.2	5846.0	6198.9	6343.6	6492.3	6736.1	6652.8
20°	5150.2	5140.3	5146.2	5215.6	5364.3	5604.2	6006.6	6175.1	6375.3	6680.6	6553.7
22.5°	5144.2	5126.4	5100.6	5106.6	5193.8	5392.0	5800.4	6004.6	6256.4	6635.0	6452.6
25°	5245.3	5225.5	5179.9	5128.4	5120.5	5239.4	5606.1	5838.1	6133.4	6615.2	6355.5
27.5°	5415.8	5402.0	5342.5	5265.2	5183.9	5179.9	5459.4	5701.3	6044.2	6635.0	6286.1
30°	5641.8	5618.0	5580.4	5481.2	5358.3	5231.5	5402.0	5627.9	5984.8	6698.4	6256.4
32.5°	5897.5	5883.7	5848.0	5748.9	5618.0	5415.8	5447.5	5643.8	5984.8	6809.4	6262.3
35°	6169.1	6167.1	6167.1	6101.7	5957.0	5705.3	5627.9	5778.6	6076.0	6987.8	6325.7
37.5°	6432.8	6430.8	6494.2	6518.0	6353.5	6081.9	5935.2	6048.2	6276.2	7251.5	6482.3
40°	6646.9	6654.8	6793.6	6912.5	6821.3	6569.6	6363.4	6420.9	6601.3	7626.2	6755.9
42.5°	6863.0	6884.8	7092.9	7303.0	7338.7	7120.7	6912.5	6946.2	7067.1	8121.8	7164.3
45°	7098.9	7108.8	7400.2	7693.6	7866.0	7737.2	7566.7	7612.3	7640.0	8734.3	7772.9
47.5°	7326.8	7352.6	7729.3	8131.7	8458.8	8446.9	8351.7	8337.8	8343.8	9479.7	8492.5
50°	7638.1	7675.7	8117.8	8603.5	9083.2	9303.3	9331.0	9225.9	9182.3	10308.3	9388.5
52.5°	8228.8	8228.8	8625.3	9103.0	9747.3	10292.5	10478.8	10306.3	10167.6	11184.5	10340.0
55°	8968.2	9000.0	9315.1	9701.7	10518.4	11333.2	11963.6	11773.3	11380.8	12138.0	11337.2
57.5°	9297.3	9337.0	9836.5	10437.2	11527.5	12516.7	13390.9	13323.5	12750.6	13129.2	12372.0
60°	8702.6	8785.9	9473.7	10480.8	12441.3	14425.7	15042.2	14846.0	14027.2	14170.0	13494.0
62.5°	7259.4	7350.6	8113.8	9519.3	12314.5	16489.3	17645.1	16921.5	15621.1	15484.3	14988.7
65°	4331.5	4327.5	5245.3	7108.8	10750.4	17062.2	21764.4	20414.4	18083.2	17288.2	16527.0
67.5°	2753.5	2747.6	2939.9	3766.5	7154.4	15658.7	24412.9	24763.7	21427.4	18614.4	16653.9
70°	2172.7	2170.7	2309.5	2686.1	3538.5	11142.9	23675.4	26103.8	23447.4	18108.9	14663.6
72.5°	1583.9	1587.9	1802.0	2250.0	2729.7	5594.2	19171.5	22335.3	21566.2	15985.8	11904.1
75°	1137.9	1143.8	1272.7	1722.7	2517.6	3058.8	12748.6	16794.6	16408.1	12814.0	8189.2
77.5°	723.6	731.5	844.5	1207.3	2033.9	2470.0	7729.3	11856.5	10916.9	7219.8	2912.1
80°	442.1	467.8	563.0	900.0	1625.5	1853.5	3863.6	6246.4	5467.4	1980.4	979.3
82.5°	228.0	247.8	339.0	557.0	1120.0	1627.5	2186.6	2624.7	1692.9	828.6	521.4
85°	71.4	83.3	118.9	226.0	533.3	1009.0	1447.1	1304.4	777.1	390.5	241.8
87.5°	17.8	17.8	19.8	19.8	21.8	45.6	279.5	295.4	206.2	122.9	99.1
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°	7497.3	7497.3	7497.3	7497.3	7497.3	7497.3	7497.3	7497.3	7497.3	7497.3	7497.3
2.5°	7445.8	7398.2	7378.4	7376.4	7326.8	7255.5	7207.9	7174.2	7154.4	7150.4	7150.4
5°	7313.0	7251.5	7170.2	7108.8	6976.0	6841.2	6728.2	6664.7	6591.4	6581.5	6579.5
7.5°	7136.5	7047.3	6892.7	6720.2	6488.3	6264.3	6074.0	5945.1	5816.3	5792.5	5784.5
10°	6946.2	6825.3	6561.6	6258.3	5911.4	5576.4	5285.0	5057.0	4906.4	4799.3	4779.5
12.5°	6757.9	6597.3	6210.8	5758.8	5283.0	4825.1	4387.0	4014.3	3744.7	3588.1	3560.3
15°	6581.5	6357.5	5828.2	5251.3	4632.8	4006.4	3385.9	2902.2	2523.6	2388.8	2357.0
17.5°	6420.9	6141.4	5457.5	4726.0	3954.8	3136.1	2430.4	2000.2	1778.2	1710.8	1694.9
20°	6260.3	5919.4	5080.8	4172.9	3235.2	2317.4	1776.2	1574.0	1490.7	1465.0	1457.0
22.5°	6087.9	5675.5	4670.5	3627.7	2507.7	1734.6	1453.1	1363.9	1338.1	1340.1	1338.1
25°	5915.4	5427.7	4240.3	3035.0	1867.4	1407.5	1268.7	1235.0	1241.0	1258.8	1262.8
27.5°	5772.7	5207.7	3818.0	2384.8	1459.0	1211.2	1145.8	1143.8	1165.6	1189.4	1193.4
30°	5669.6	5011.4	3401.7	1833.7	1201.3	1076.4	1050.7	1062.5	1088.3	1106.2	1112.1
32.5°	5596.2	4842.9	2957.7	1441.2	1052.6	981.3	969.4	981.3	997.1	1015.0	1018.9
35°	5570.5	4720.0	2521.6	1175.5	951.5	911.9	904.0	909.9	917.8	927.7	931.7
37.5°	5627.9	4658.6	2065.6	1022.9	890.1	866.3	854.4	850.4	852.4	856.4	858.4
40°	5798.4	4686.3	1692.9	933.7	850.4	828.6	808.8	800.9	798.9	802.9	800.9
42.5°	6091.8	4803.3	1423.3	882.2	818.7	787.0	765.2	757.3	757.3	767.2	767.2
45°	6522.0	5033.2	1229.1	844.5	791.0	751.3	727.5	723.6	731.5	747.4	749.3
47.5°	7152.4	5370.2	1112.1	816.7	765.2	719.6	695.8	693.8	709.7	735.5	737.4
50°	7899.7	5855.9	1048.7	796.9	747.4	693.8	670.0	672.0	689.9	717.6	723.6
52.5°	8799.7	6518.0	1052.6	789.0	737.4	678.0	654.2	650.2	668.1	695.8	701.8
55°	9729.5	7322.9	1129.9	791.0	723.6	670.0	638.3	624.4	640.3	660.1	662.1
57.5°	10752.4	8230.8	1322.2	787.0	705.7	662.1	624.4	592.7	602.6	614.5	620.5
60°	11906.1	9299.3	1736.6	794.9	697.8	644.3	596.7	555.1	553.1	561.0	563.0
62.5°	13448.4	10752.4	2202.4	808.8	715.6	622.5	555.1	511.5	503.5	507.5	509.5
65°	14627.9	11446.2	2055.7	796.9	753.3	606.6	515.4	469.8	454.0	450.0	450.0
67.5°	14148.2	10528.4	1431.3	765.2	771.1	608.6	483.7	426.2	406.4	396.5	394.5
70°	12038.9	8551.9	995.1	733.5	751.3	604.6	450.0	390.5	364.8	350.9	348.9
72.5°	9511.4	6529.9	804.8	670.0	681.9	545.2	400.4	350.9	329.1	311.2	311.2
75°	6121.6	3984.6	672.0	596.7	557.0	424.2	346.9	313.2	291.4	273.6	273.6
77.5°	2059.7	1478.8	521.4	505.5	416.3	319.2	291.4	269.6	251.8	235.9	233.9
80°	836.6	701.8	382.6	382.6	291.4	243.8	228.0	218.1	206.2	186.3	186.3
82.5°	485.7	426.2	267.6	231.9	194.3	168.5	158.6	148.7	148.7	134.8	134.8
85°	233.9	235.9	160.6	142.7	111.0	97.1	93.2	87.2	85.2	77.3	75.3
87.5°	126.9	128.9	81.3	63.4	43.6	37.7	31.7	29.7	27.8	25.8	25.8
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)