

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: P642972

Luminaire Tested: GWS-SA6E-722-U-AFL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P642972
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-46)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SAGE-722-U-AFL-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (96) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24833.7 lumens
Efficiency: N/A
Efficacy: 76.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

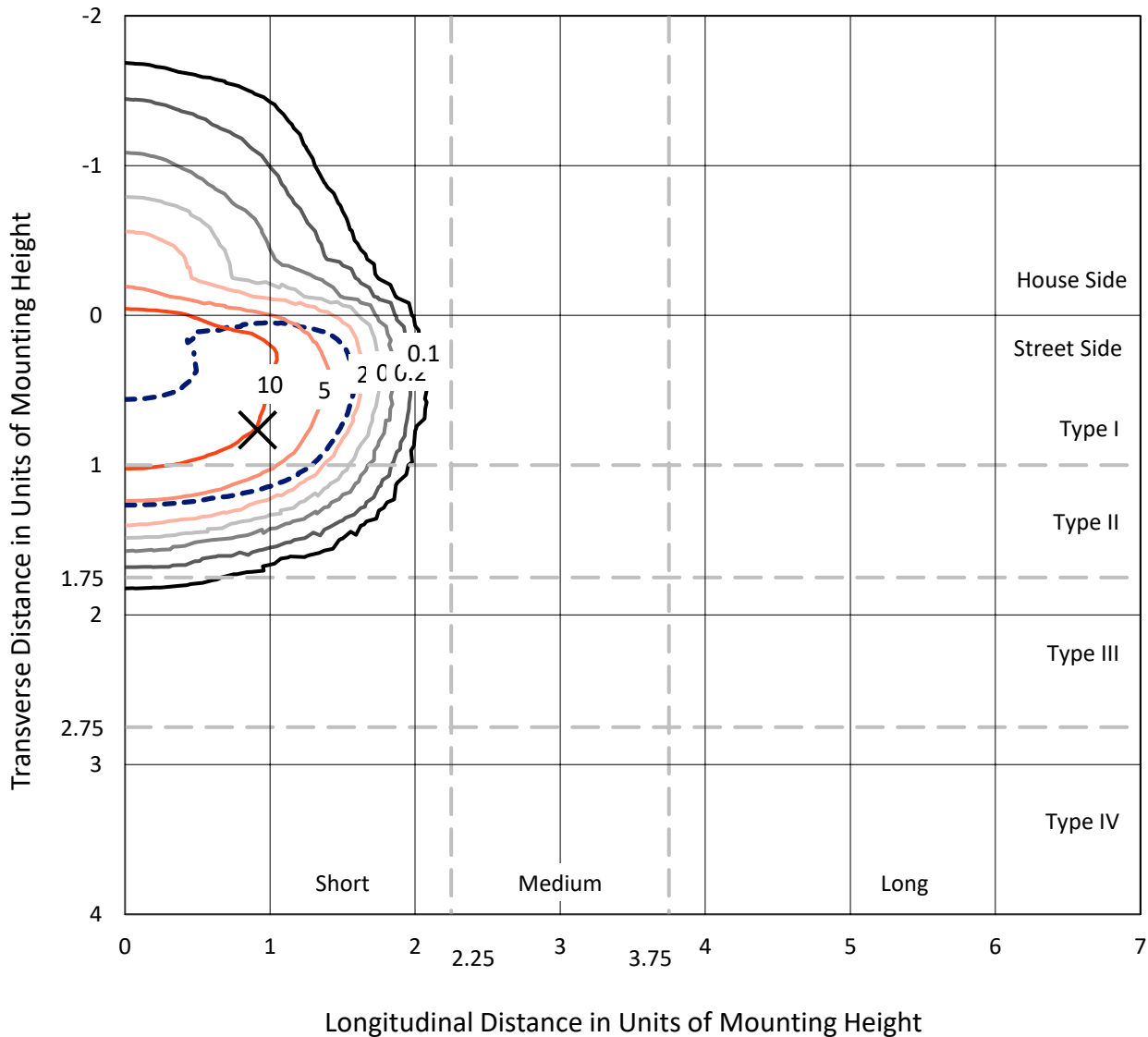
Input Watts (W): 323.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

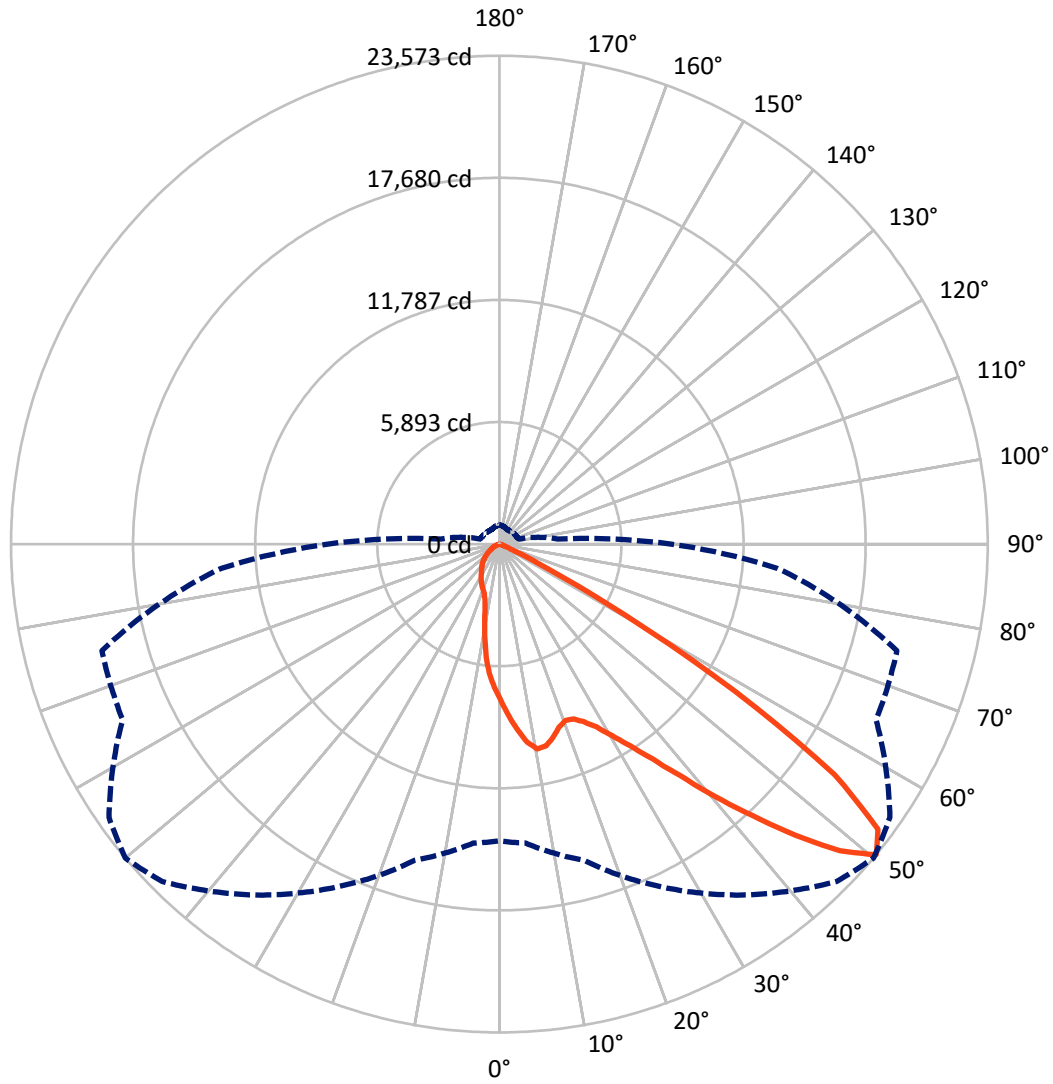
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 50-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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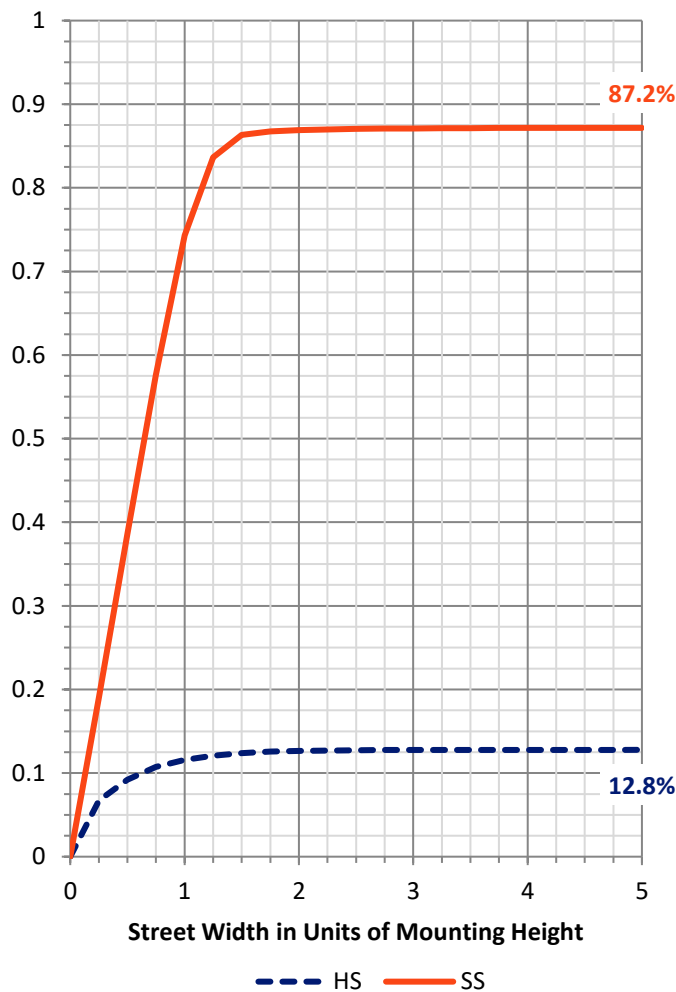
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3190.8	0.0	3190.8
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	21643.0	0.0	21643.0
	% Fixture	87.2	0.0	87.2
Total	Lumens	24833.7	0.0	24833.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	697.9	2.8
10°-20°	1800.7	7.3
20°-30°	2971.8	12.0
30°-40°	4904.1	19.7
40°-50°	7759.5	31.2
50°-60°	5874.8	23.7
60°-70°	735.3	3.0
70°-80°	83.2	0.3
80°-90°	6.4	0.0
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°	24833.7	100.0
0°-180°	24833.7	100.0

Coefficient of Utilization



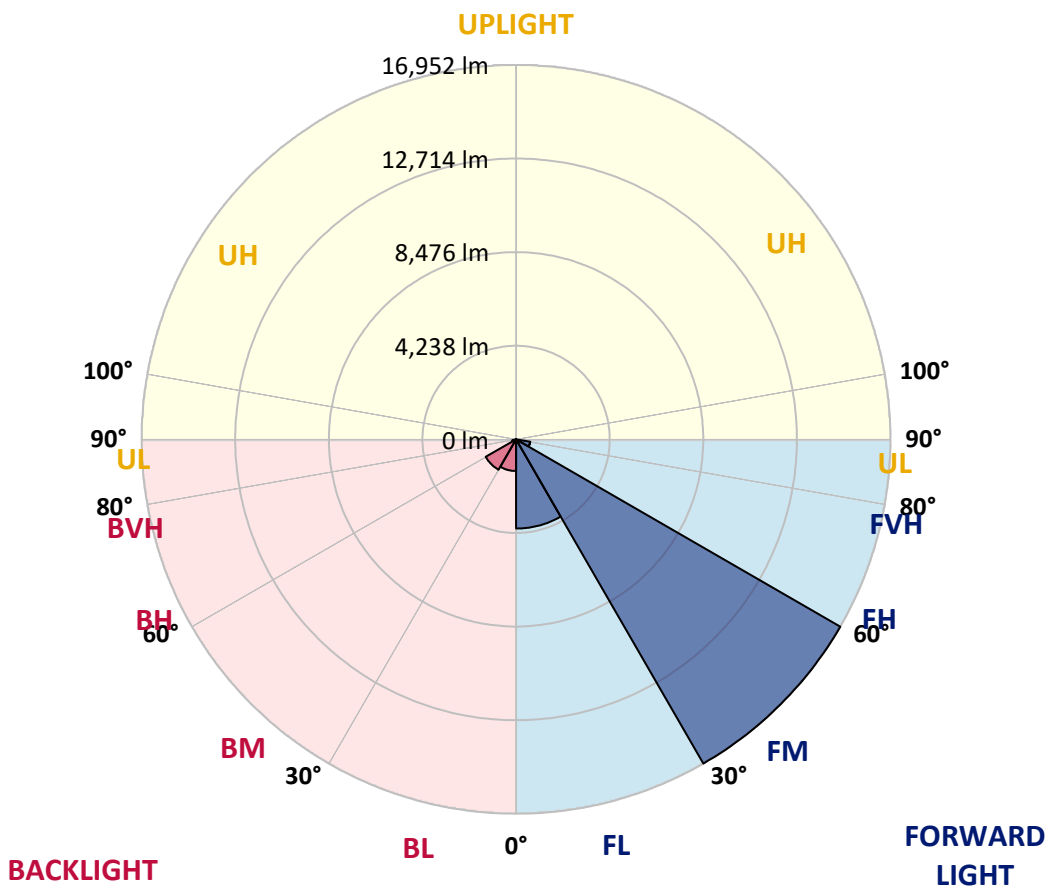
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4038.3	16.3			
FM (30°-60°)	16951.6	68.3			
FH (60°-80°)	650.1	2.6			G0/660
FVH (80°-90°)	3.0	0.0			G0/10
BL (0°-30°)	1432.1	5.8	B3/2500		
BM (30°-60°)	1586.8	6.4	B2/2500		
BH (60°-80°)	168.4	0.7	B1/500		G1/500
BVH (80°-90°)	3.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	7523.6	7523.6	7523.6	7523.6	7523.6	7523.6	7523.6	7523.6	7523.6	7523.6	7523.6
2.5°	8573.1	8641.6	8622.7	8532.9	8436.0	8367.5	8261.1	8228.0	7986.9	7819.1	7641.8
5°	9608.4	9629.7	9606.0	9497.3	9327.1	9164.0	8989.1	8887.5	8483.3	8119.3	7748.2
7.5°	9856.6	9830.6	9875.5	9929.9	9906.2	9835.3	9650.9	9539.9	9057.7	8464.4	7901.8
10°	9081.3	9022.2	9190.0	9471.3	9766.8	10100.0	10052.8	10062.2	9617.9	8899.3	8102.7
12.5°	8053.1	8029.5	8154.7	8480.9	9060.0	9816.4	9998.4	10303.3	10130.8	9369.7	8332.0
15°	7601.6	7613.4	7689.1	7894.7	8310.7	9251.5	9688.8	10239.5	10589.3	9825.9	8584.9
17.5°	7670.2	7712.7	7710.4	7778.9	8031.8	8785.8	9296.4	10038.6	10943.9	10350.6	8875.7
20°	8135.8	8178.4	8114.5	8062.5	8147.6	8667.6	9090.7	9835.3	11182.6	10880.1	9182.9
22.5°	8833.1	8882.7	8731.5	8582.6	8528.2	8861.5	9168.8	9752.6	11364.6	11364.6	9457.1
25°	9676.9	9745.5	9511.5	9246.8	9095.5	9270.4	9502.0	9939.3	11551.4	11799.5	9643.9
27.5°	10620.1	10622.4	10421.5	10123.7	9840.0	9861.3	10000.8	10360.1	11757.0	12267.5	9790.4
30°	11681.4	11688.4	11421.3	11064.4	10707.5	10610.6	10728.8	11000.6	12184.8	12856.1	9993.7
32.5°	13052.3	13085.4	12702.5	12177.7	11714.4	11532.4	11601.0	11887.0	12865.6	13593.6	10298.6
35°	14905.4	14940.9	14376.0	13683.4	12945.9	12671.7	12740.3	13028.7	13851.2	14640.7	10785.5
37.5°	16734.9	16782.2	16210.2	15564.9	14553.2	14099.4	14170.3	14444.5	15330.9	16087.3	11565.5
40°	17999.5	18063.3	17886.0	17451.1	16512.7	15917.1	16002.2	16101.5	16959.5	17817.5	12577.2
42.5°	18666.1	18755.9	18831.5	19053.7	18559.7	18061.0	17916.8	17923.9	18616.4	19580.8	13629.0
45°	18706.2	18793.7	19181.3	20039.4	20415.2	20311.2	20048.8	19871.5	19881.0	20755.6	14286.1
47.5°	17406.2	17569.3	18295.0	19975.5	21389.0	22251.8	22119.4	21698.7	20412.8	20833.6	14215.2
50°	14326.3	14487.1	15806.0	18224.0	20679.9	23027.1	23573.1	23008.2	20065.4	19862.1	13484.8
52.5°	10405.0	10421.5	11277.2	14101.8	17805.7	21597.0	22882.9	22828.5	19535.9	18685.0	12487.4
55°	4942.5	4883.4	5845.4	7958.5	12314.8	17467.7	19635.2	20249.7	18784.2	17834.0	11714.4
57.5°	1439.5	1467.9	1895.7	3105.9	6159.8	11163.7	13447.0	14591.1	15418.3	14662.0	9086.0
60°	645.3	647.7	720.9	945.5	2051.7	5193.0	6951.6	8367.5	9218.4	8542.4	4507.6
62.5°	468.0	470.4	498.7	534.2	697.3	1758.6	2607.1	3474.6	3538.4	2316.4	1141.7
65°	390.0	390.0	394.7	394.7	418.4	628.7	791.8	1021.1	860.4	638.2	446.7
67.5°	314.4	316.7	321.5	321.5	314.4	314.4	340.4	373.5	399.5	494.0	411.3
70°	245.8	243.5	243.5	245.8	238.7	203.3	219.8	250.6	274.2	385.3	356.9
72.5°	191.5	193.8	191.5	182.0	165.5	120.5	130.0	163.1	174.9	241.1	241.1
75°	144.2	146.5	137.1	104.0	68.5	37.8	49.6	80.4	101.6	118.2	87.5
77.5°	18.9	18.9	14.2	14.2	11.8	14.2	14.2	18.9	28.4	28.4	21.3
80°	2.4	2.4	2.4	4.7	7.1	9.5	9.5	9.5	9.5	11.8	11.8
82.5°	2.4	2.4	2.4	2.4	7.1	7.1	9.5	9.5	9.5	9.5	9.5
85°	0.0	0.0	0.0	2.4	4.7	7.1	7.1	9.5	9.5	9.5	9.5
87.5°	0.0	0.0	0.0	2.4	4.7	7.1	7.1	7.1	9.5	9.5	9.5
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°	7523.6	7523.6	7523.6	7523.6	7523.6	7523.6	7523.6	7523.6	7523.6	7523.6	7523.6
2.5°	7535.4	7398.3	7232.9	7119.4	6958.7	6852.3	6701.1	6599.4	6512.0	6443.4	6481.2
5°	7537.8	7320.3	6982.3	6694.0	6379.6	6091.2	5781.6	5538.1	5318.3	5219.0	5273.4
7.5°	7585.1	7273.1	6755.4	6242.5	5639.8	5044.1	4486.3	4032.5	3807.9	3701.5	3734.6
10°	7677.3	7251.8	6502.5	5651.6	4673.0	3859.9	3318.6	3011.3	2886.1	2819.9	2831.7
12.5°	7762.4	7237.6	6174.0	4873.9	3687.4	2994.8	2713.5	2671.0	2697.0	2699.3	2697.0
15°	7878.2	7211.6	5767.4	4075.0	2949.9	2588.2	2595.3	2656.8	2718.2	2737.2	2732.4
17.5°	8001.1	7171.4	5242.7	3309.2	2503.1	2470.1	2552.8	2635.5	2697.0	2706.4	2708.8
20°	8128.7	7088.7	4644.6	2701.7	2295.1	2380.2	2472.4	2533.9	2578.8	2593.0	2597.7
22.5°	8187.8	6913.8	3954.5	2266.8	2155.7	2269.1	2337.7	2418.1	2432.2	2380.2	2389.7
25°	8157.1	6618.3	3280.8	1973.7	2016.2	2129.7	2231.3	2191.1	2132.0	2094.2	2106.0
27.5°	8060.2	6226.0	2621.3	1758.6	1867.3	2011.5	2023.3	1978.4	1969.0	1938.2	1947.7
30°	7956.2	5774.5	2108.4	1586.0	1716.0	1867.3	1831.9	1848.4	1850.8	1815.3	1827.1
32.5°	7892.4	5301.8	1678.2	1470.2	1619.1	1647.5	1718.4	1751.5	1753.9	1671.1	1685.3
35°	7913.6	4836.1	1420.6	1375.7	1529.3	1522.2	1621.5	1640.4	1503.3	1389.8	1401.7
37.5°	8086.2	4405.9	1274.0	1302.4	1373.3	1427.7	1503.3	1378.0	1347.3	1295.3	1302.4
40°	8407.6	4039.5	1186.6	1257.5	1266.9	1354.4	1238.6	1255.1	1257.5	1224.4	1231.5
42.5°	8783.5	3734.6	1134.6	1231.5	1207.8	1222.0	1106.2	1139.3	1174.8	1160.6	1162.9
45°	8972.6	3436.8	1089.7	1141.7	1148.8	1014.0	988.0	1023.5	1068.4	1075.5	1077.8
47.5°	8804.7	3153.2	1042.4	1011.7	1058.9	924.2	893.5	905.3	957.3	985.7	990.4
50°	8291.8	2827.0	971.5	895.8	869.8	829.7	801.3	803.7	862.7	912.4	921.8
52.5°	7570.9	2486.6	855.7	758.7	699.7	730.4	737.5	723.3	777.7	827.3	836.7
55°	6871.2	2061.1	678.4	616.9	562.6	628.7	647.7	628.7	645.3	678.4	680.7
57.5°	4838.5	1165.3	520.0	510.6	465.6	538.9	569.6	541.3	512.9	534.2	538.9
60°	2243.1	609.8	399.5	399.5	387.6	463.3	515.3	475.1	420.7	430.2	437.3
62.5°	702.0	385.3	293.1	276.6	316.7	394.7	437.3	397.1	333.3	333.3	342.7
65°	397.1	330.9	231.6	212.7	257.6	316.7	342.7	300.2	243.5	238.7	238.7
67.5°	368.7	314.4	205.6	172.5	182.0	203.3	212.7	184.4	167.8	165.5	167.8
70°	304.9	262.4	165.5	118.2	111.1	108.7	113.5	106.4	101.6	104.0	111.1
72.5°	189.1	158.4	104.0	70.9	61.5	59.1	59.1	59.1	56.7	56.7	56.7
75°	68.5	59.1	47.3	35.5	30.7	28.4	28.4	30.7	28.4	26.0	23.6
77.5°	21.3	18.9	18.9	18.9	16.5	14.2	11.8	11.8	9.5	7.1	7.1
80°	11.8	11.8	11.8	11.8	9.5	9.5	7.1	4.7	2.4	2.4	0.0
82.5°	11.8	11.8	11.8	9.5	9.5	9.5	7.1	4.7	2.4	0.0	0.0
85°	9.5	9.5	9.5	9.5	9.5	9.5	7.1	4.7	2.4	0.0	0.0
87.5°	9.5	9.5	9.5	9.5	9.5	9.5	7.1	4.7	2.4	0.0	0.0
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)