

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: P643412

Luminaire Tested: GWS-SA6E-830-U-AFL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643412
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-830-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) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26782.2 lumens
Efficiency: N/A
Efficacy: 82.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

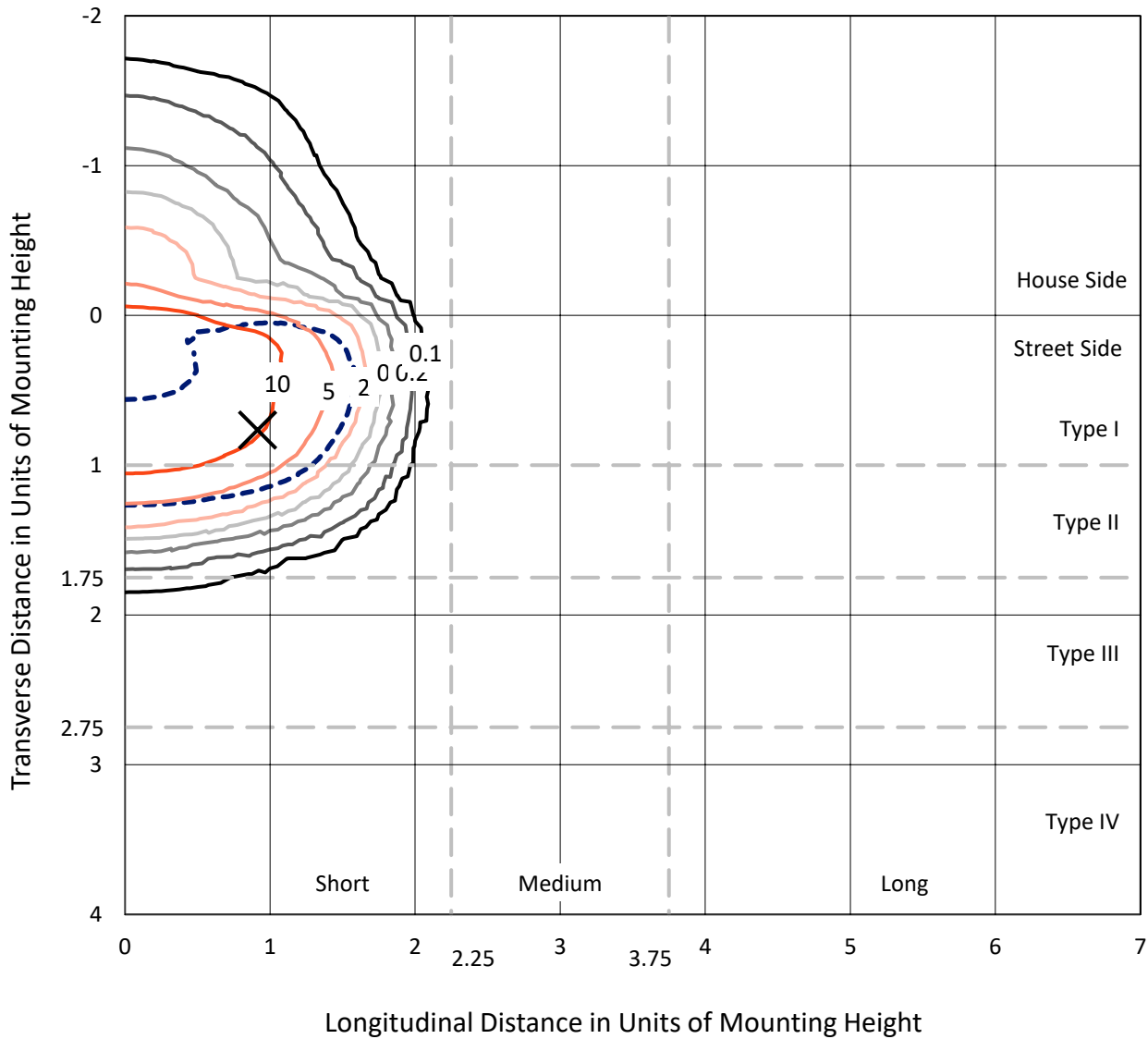
Input Watts (W): 323.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

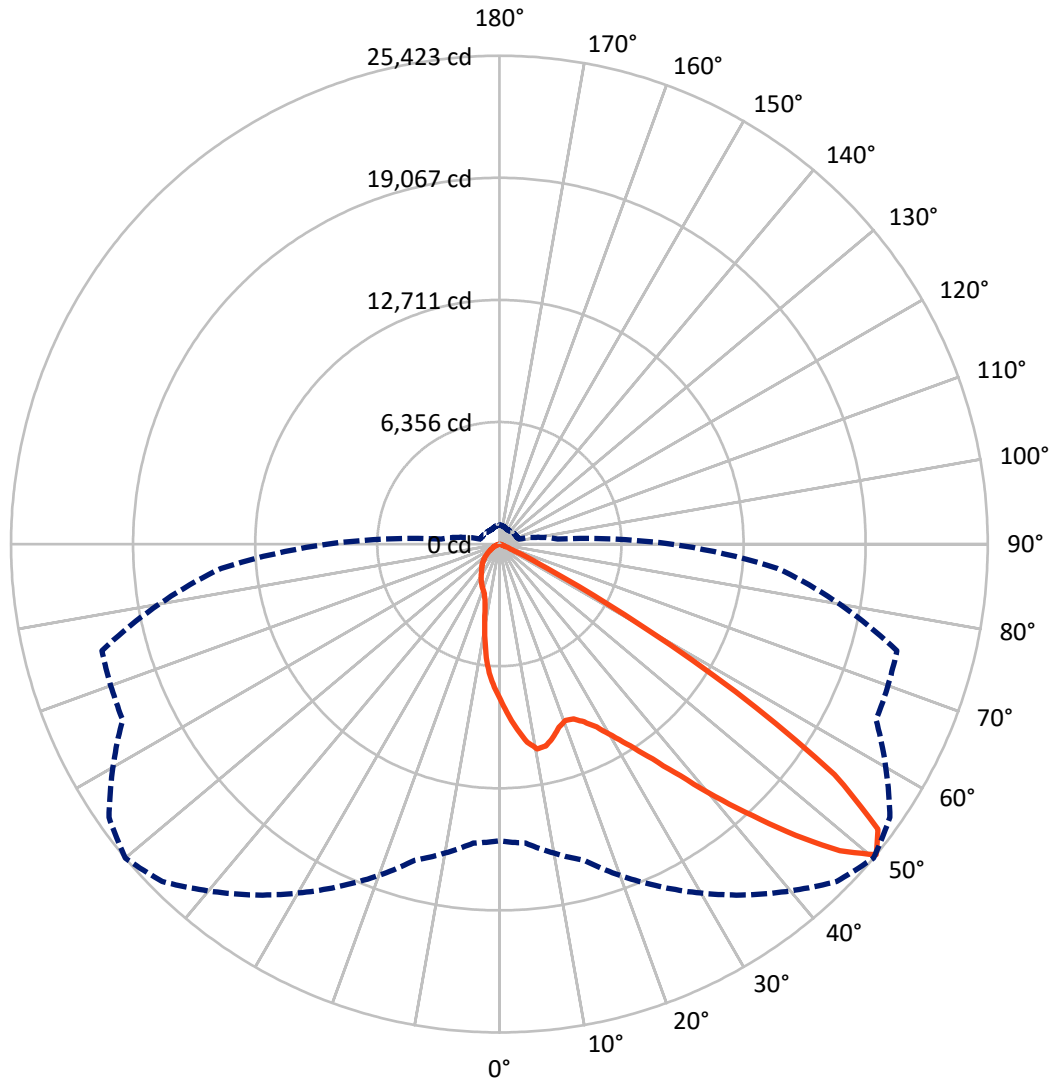
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.6 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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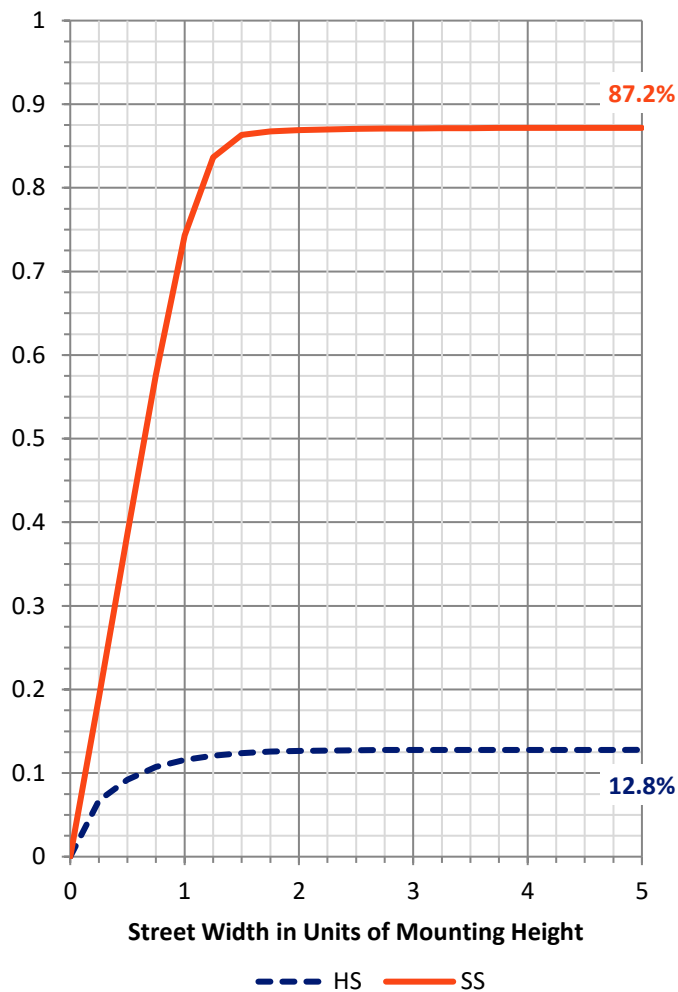
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3441.1	0.0	3441.1
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	23341.1	0.0	23341.1
	% Fixture	87.2	0.0	87.2
Total	Lumens	26782.2	0.0	26782.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	752.7	2.8
10°-20°	1942.0	7.3
20°-30°	3205.0	12.0
30°-40°	5288.9	19.7
40°-50°	8368.3	31.2
50°-60°	6335.8	23.7
60°-70°	793.0	3.0
70°-80°	89.7	0.3
80°-90°	6.8	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°	26782.2	100.0
0°-180°	26782.2	100.0

Coefficient of Utilization



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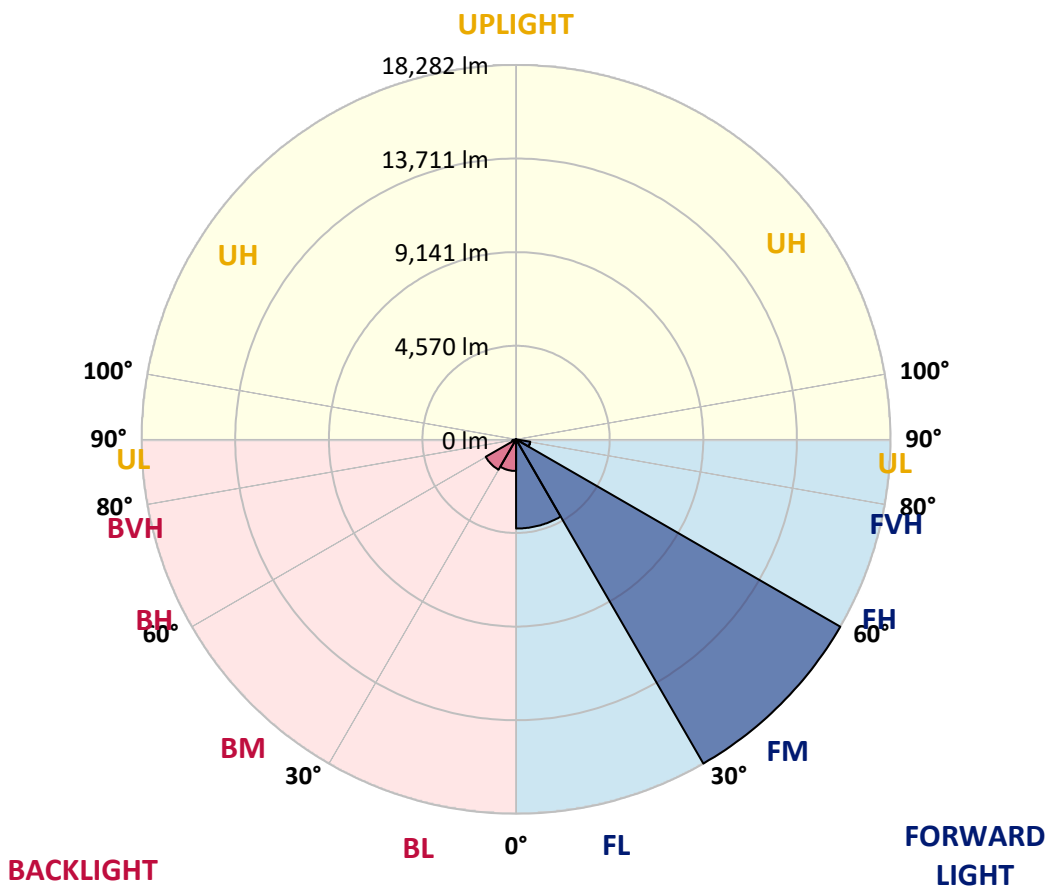
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4355.2	16.3			
FM (30°-60°)	18281.7	68.3			
FH (60°-80°)	701.1	2.6			G1/1800
FVH (80°-90°)	3.2	0.0			G0/10
BL (0°-30°)	1544.5	5.8	B3/2500		
BM (30°-60°)	1711.3	6.4	B2/2500		
BH (60°-80°)	181.6	0.7	B1/500		G1/500
BVH (80°-90°)	3.7	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°	8113.9	8113.9	8113.9	8113.9	8113.9	8113.9	8113.9	8113.9	8113.9	8113.9	8113.9
2.5°	9245.8	9319.7	9299.3	9202.4	9097.9	9024.0	8909.3	8873.6	8613.6	8432.6	8241.4
5°	10362.3	10385.2	10359.7	10242.5	10058.9	9883.1	9694.4	9584.8	9148.9	8756.3	8356.1
7.5°	10630.0	10601.9	10650.3	10709.0	10683.5	10607.0	10408.2	10288.4	9768.3	9128.5	8521.8
10°	9793.8	9730.1	9911.1	10214.4	10533.1	10892.5	10841.5	10851.7	10372.5	9597.5	8738.5
12.5°	8685.0	8659.5	8794.6	9146.3	9770.9	10586.6	10782.9	11111.7	10925.7	10104.8	8985.8
15°	8198.1	8210.8	8292.4	8514.2	8962.8	9977.4	10449.0	11042.9	11420.2	10596.8	9258.5
17.5°	8272.0	8317.9	8315.3	8389.2	8662.0	9475.2	10025.8	10826.2	11802.6	11162.7	9572.1
20°	8774.2	8820.1	8751.2	8695.1	8786.9	9347.7	9804.0	10607.0	12060.0	11733.7	9903.4
22.5°	9526.2	9579.7	9416.6	9256.0	9197.3	9556.8	9888.1	10517.8	12256.3	12256.3	10199.1
25°	10436.2	10510.1	10257.8	9972.3	9809.1	9997.8	10247.6	10719.2	12457.7	12725.4	10400.5
27.5°	11453.3	11455.9	11239.2	10918.0	10612.1	10635.1	10785.5	11172.9	12679.5	13230.1	10558.6
30°	12597.9	12605.5	12317.5	11932.6	11547.6	11443.1	11570.6	11863.7	13140.9	13864.8	10777.8
32.5°	14076.4	14112.1	13699.1	13133.2	12633.6	12437.3	12511.2	12819.7	13875.0	14660.2	11106.6
35°	16074.9	16113.2	15503.9	14757.0	13961.7	13666.0	13739.9	14050.9	14938.0	15789.4	11631.8
37.5°	18048.0	18099.0	17482.1	16786.1	15695.1	15205.7	15282.1	15577.9	16533.8	17349.5	12473.0
40°	19411.8	19480.6	19289.4	18820.4	17808.4	17166.0	17257.7	17364.8	18290.1	19215.5	13564.0
42.5°	20130.6	20227.5	20309.1	20548.7	20015.9	19478.0	19322.6	19330.2	20077.1	21117.2	14698.4
45°	20174.0	20268.3	20686.3	21611.7	22017.0	21904.8	21621.9	21430.7	21440.9	22384.1	15407.1
47.5°	18771.9	18947.8	19730.4	21542.9	23067.3	23997.7	23854.9	23401.2	22014.5	22468.2	15330.6
50°	15450.4	15623.7	17046.2	19653.9	22302.5	24833.8	25422.7	24813.4	21639.7	21420.5	14542.9
52.5°	11221.4	11239.2	12162.0	15208.2	19202.7	23291.6	24678.3	24619.7	21068.7	20151.0	13467.2
55°	5330.3	5266.5	6304.0	8583.0	13281.1	18838.2	21175.8	21838.6	20258.1	19233.3	12633.6
57.5°	1552.4	1583.0	2044.4	3349.6	6643.1	12039.6	14502.1	15735.9	16628.1	15812.4	9798.9
60°	695.9	698.5	777.5	1019.7	2212.7	5600.5	7497.0	9024.0	9941.7	9212.6	4861.2
62.5°	504.7	507.3	537.9	576.1	752.0	1896.6	2811.7	3747.2	3816.1	2498.2	1231.2
65°	420.6	420.6	425.7	425.7	451.2	678.1	854.0	1101.2	927.9	688.3	481.8
67.5°	339.0	341.6	346.7	346.7	339.0	339.0	367.1	402.8	430.8	532.8	443.6
70°	265.1	262.6	262.6	265.1	257.5	219.2	237.1	270.2	295.7	415.5	384.9
72.5°	206.5	209.0	206.5	196.3	178.4	130.0	140.2	175.9	188.6	260.0	260.0
75°	155.5	158.0	147.9	112.2	73.9	40.8	53.5	86.7	109.6	127.5	94.3
77.5°	20.4	20.4	15.3	15.3	12.7	15.3	15.3	20.4	30.6	30.6	22.9
80°	2.5	2.5	2.5	5.1	7.6	10.2	10.2	10.2	10.2	12.7	12.7
82.5°	2.5	2.5	2.5	2.5	7.6	7.6	10.2	10.2	10.2	10.2	10.2
85°	0.0	0.0	0.0	2.5	5.1	7.6	7.6	10.2	10.2	10.2	10.2
87.5°	0.0	0.0	0.0	2.5	5.1	7.6	7.6	7.6	10.2	10.2	10.2
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°	8113.9	8113.9	8113.9	8113.9	8113.9	8113.9	8113.9	8113.9	8113.9	8113.9	8113.9
2.5°	8126.7	7978.8	7800.4	7678.0	7504.7	7390.0	7226.8	7117.2	7022.9	6949.0	6989.8
5°	8129.2	7894.7	7530.2	7219.2	6880.2	6569.2	6235.2	5972.7	5735.6	5628.5	5687.2
7.5°	8180.2	7843.7	7285.5	6732.3	6082.3	5439.9	4838.3	4348.8	4106.7	3992.0	4027.7
10°	8279.6	7820.8	7012.7	6095.0	5039.7	4162.8	3579.0	3247.6	3112.5	3041.1	3053.9
12.5°	8371.4	7805.5	6658.4	5256.3	3976.7	3229.8	2926.4	2880.5	2908.6	2911.1	2908.6
15°	8496.3	7777.5	6219.9	4394.7	3181.3	2791.3	2799.0	2865.2	2931.5	2951.9	2946.8
17.5°	8628.9	7734.1	5654.0	3568.8	2699.5	2663.9	2753.1	2842.3	2908.6	2918.8	2921.3
20°	8766.5	7644.9	5009.1	2913.7	2475.2	2567.0	2666.4	2732.7	2781.1	2796.4	2801.5
22.5°	8830.3	7456.3	4264.7	2444.6	2324.8	2447.2	2521.1	2607.8	2623.1	2567.0	2577.2
25°	8797.1	7137.6	3538.2	2128.5	2174.4	2296.8	2406.4	2363.1	2299.3	2258.5	2271.3
27.5°	8692.6	6714.5	2827.0	1896.6	2013.8	2169.3	2182.1	2133.6	2123.4	2090.3	2100.5
30°	8580.4	6227.6	2273.8	1710.5	1850.7	2013.8	1975.6	1993.4	1996.0	1957.7	1970.5
32.5°	8511.6	5717.7	1809.9	1585.6	1746.2	1776.8	1853.2	1888.9	1891.5	1802.2	1817.5
35°	8534.6	5215.6	1532.0	1483.6	1649.3	1641.7	1748.7	1769.1	1621.3	1498.9	1511.6
37.5°	8720.6	4751.6	1374.0	1404.6	1481.1	1539.7	1621.3	1486.2	1453.0	1396.9	1404.6
40°	9067.3	4356.5	1279.7	1356.1	1366.3	1460.7	1335.8	1353.6	1356.1	1320.5	1328.1
42.5°	9472.6	4027.7	1223.6	1328.1	1302.6	1317.9	1193.0	1228.7	1266.9	1251.6	1254.2
45°	9676.6	3706.5	1175.2	1231.2	1238.9	1093.6	1065.5	1103.8	1152.2	1159.9	1162.4
47.5°	9495.6	3400.6	1124.2	1091.0	1142.0	996.7	963.6	976.3	1032.4	1063.0	1068.1
50°	8942.4	3048.8	1047.7	966.1	938.1	894.8	864.2	866.7	930.4	984.0	994.2
52.5°	8164.9	2681.7	922.8	818.3	754.5	787.7	795.3	780.0	838.7	892.2	902.4
55°	7410.4	2222.9	731.6	665.3	606.7	678.1	698.5	678.1	695.9	731.6	734.2
57.5°	5218.1	1256.7	560.8	550.6	502.2	581.2	614.3	583.8	553.2	576.1	581.2
60°	2419.1	657.7	430.8	430.8	418.1	499.6	555.7	512.4	453.7	463.9	471.6
62.5°	757.1	415.5	316.1	298.3	341.6	425.7	471.6	428.3	359.4	359.4	369.6
65°	428.3	356.9	249.8	229.4	277.9	341.6	369.6	323.7	262.6	257.5	257.5
67.5°	397.7	339.0	221.8	186.1	196.3	219.2	229.4	198.8	181.0	178.4	181.0
70°	328.8	283.0	178.4	127.5	119.8	117.3	122.4	114.7	109.6	112.2	119.8
72.5°	203.9	170.8	112.2	76.5	66.3	63.7	63.7	63.7	61.2	61.2	61.2
75°	73.9	63.7	51.0	38.2	33.1	30.6	30.6	33.1	30.6	28.0	25.5
77.5°	22.9	20.4	20.4	20.4	17.8	15.3	12.7	12.7	10.2	7.6	7.6
80°	12.7	12.7	12.7	12.7	10.2	10.2	7.6	5.1	2.5	2.5	0.0
82.5°	12.7	12.7	12.7	10.2	10.2	10.2	7.6	5.1	2.5	0.0	0.0
85°	10.2	10.2	10.2	10.2	10.2	10.2	7.6	5.1	2.5	0.0	0.0
87.5°	10.2	10.2	10.2	10.2	10.2	10.2	7.6	5.1	2.5	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)