

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: P637528

Luminaire Tested: GWS-SA4D-722-U-AFL-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637528
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-47)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4D-722-U-AFL-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16364.5 lumens
Efficiency: N/A
Efficacy: 101.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

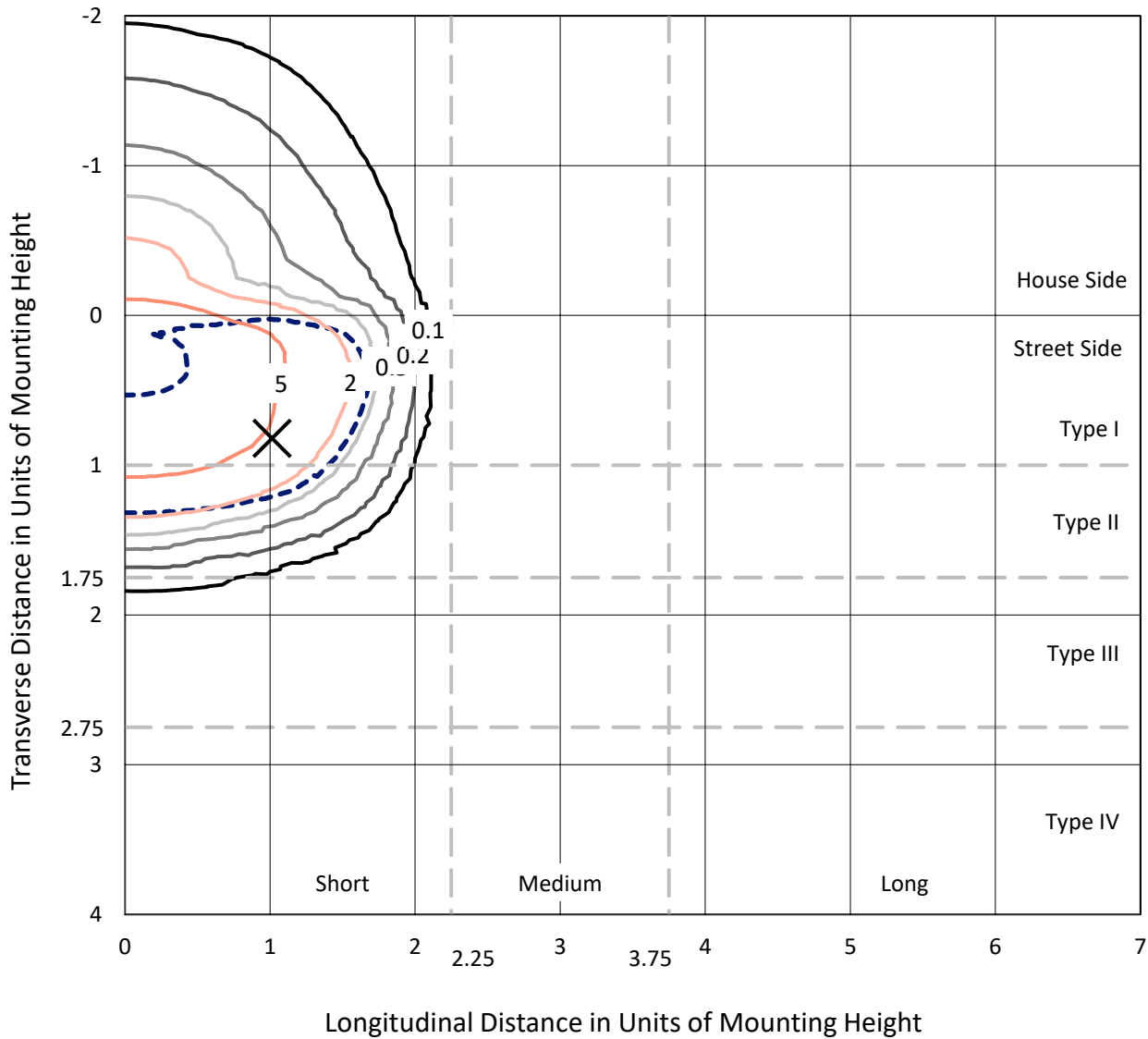
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

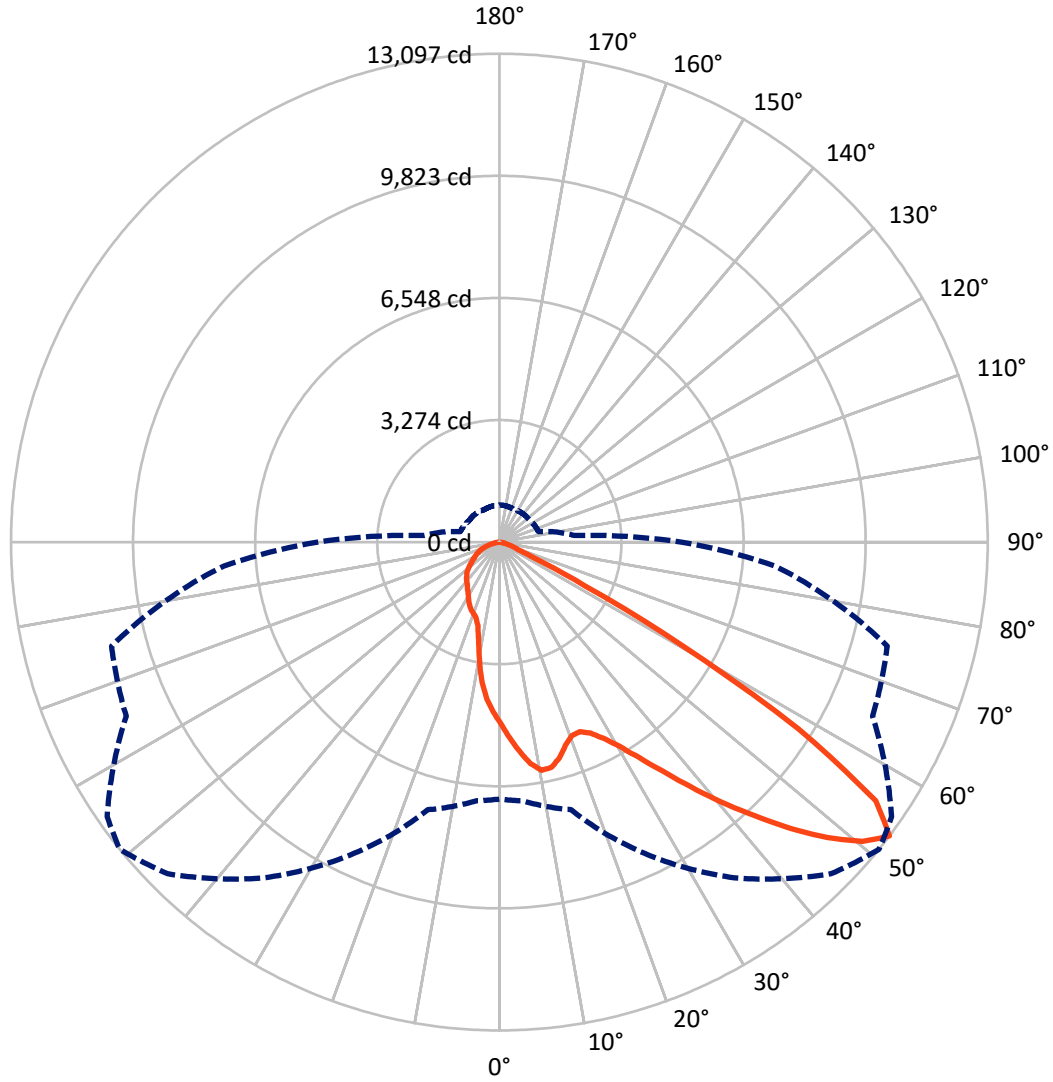
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 51-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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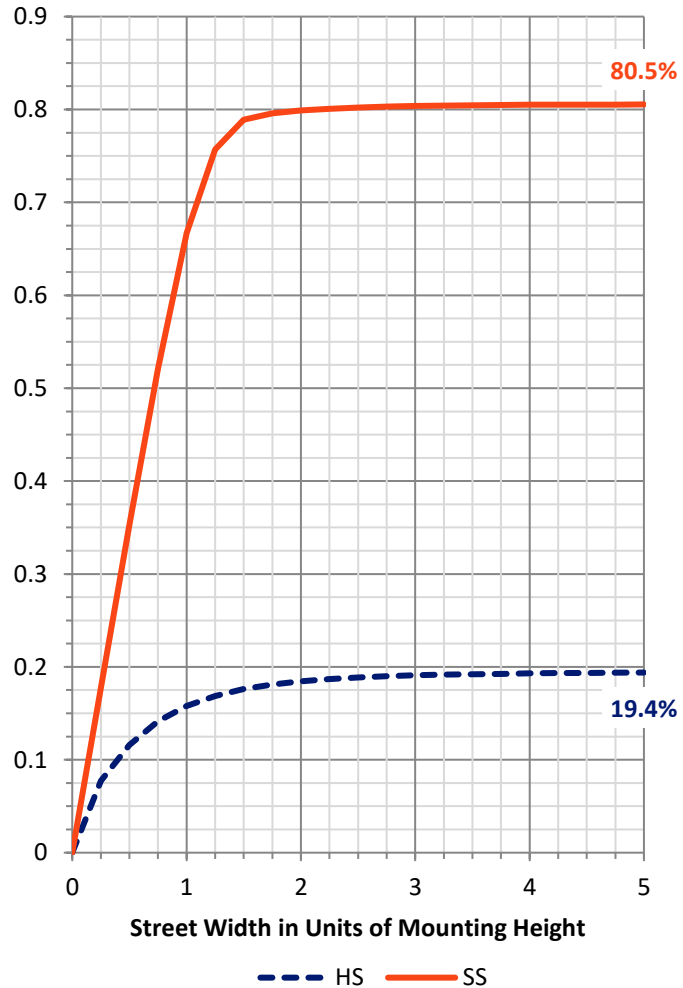
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3188.5	0.0	3188.5
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	13176.0	0.0	13176.0
	% Fixture	80.5	0.0	80.5
Total	Lumens	16364.5	0.0	16364.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	454.7	2.8
10°-20°	1181.4	7.2
20°-30°	1920.9	11.7
30°-40°	3044.2	18.6
40°-50°	4591.3	28.1
50°-60°	3971.8	24.3
60°-70°	900.5	5.5
70°-80°	265.5	1.6
80°-90°	34.2	0.2
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°	16364.5	100.0
0°-180°	16364.5	100.0

Coefficient of Utilization



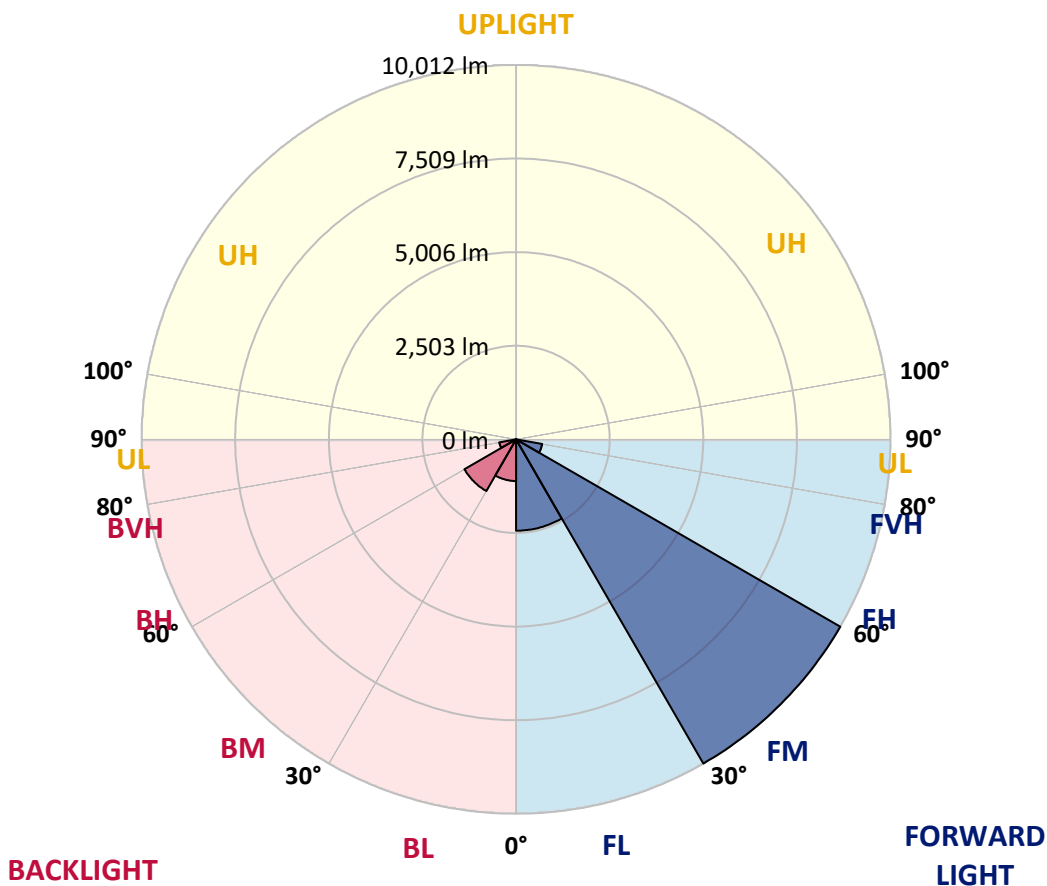
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2442.4	14.9			
FM (30°-60°)	10012.0	61.2			
FH (60°-80°)	708.6	4.3			G1/1800
FVH (80°-90°)	12.9	0.1			G1/100
BL (0°-30°)	1114.6	6.8	B3/2500		
BM (30°-60°)	1595.3	9.7	B2/2500		
BH (60°-80°)	457.3	2.8	B1/500		G1/500
BVH (80°-90°)	21.3	0.1			G1/100
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°	51°	55°	65°	75°	85°
0°	4872.5	4872.5	4872.5	4872.5	4872.5	4872.5	4872.5	4872.5	4872.5	4872.5	4872.5
2.5°	5429.9	5460.9	5413.1	5395.0	5365.2	5313.5	5254.0	5237.2	5109.2	5025.1	4930.7
5°	5975.6	5992.4	5953.6	5914.8	5841.1	5749.3	5634.2	5609.6	5376.9	5184.2	4983.7
7.5°	6097.1	6090.7	6124.3	6146.3	6137.2	6101.0	5998.8	5951.0	5673.0	5367.8	5071.7
10°	5616.1	5579.9	5704.0	5851.4	6028.6	6232.9	6221.3	6217.4	5975.6	5614.8	5184.2
12.5°	4978.6	4960.5	5061.3	5246.2	5581.2	6033.8	6203.2	6335.1	6248.4	5850.1	5309.6
15°	4613.9	4607.4	4676.0	4809.2	5075.6	5647.1	6009.2	6270.4	6482.5	6102.3	5442.8
17.5°	4548.0	4551.8	4575.1	4651.4	4842.8	5313.5	5732.5	6097.1	6664.8	6379.0	5609.6
20°	4740.6	4766.5	4726.4	4738.0	4841.5	5193.2	5543.7	5922.6	6781.2	6657.1	5789.4
22.5°	5168.7	5159.6	5071.7	5019.9	5021.2	5266.9	5523.0	5841.1	6857.5	6927.3	5952.3
25°	5653.6	5643.2	5538.5	5423.4	5351.0	5467.4	5671.7	5927.7	6926.0	7174.3	6082.9
27.5°	6226.4	6194.1	6077.7	5930.3	5770.0	5820.4	5958.8	6161.8	7032.1	7417.4	6169.5
30°	6781.2	6818.7	6651.9	6477.3	6307.9	6276.9	6357.0	6540.7	7248.0	7701.9	6273.0
32.5°	7517.0	7504.1	7319.1	7091.5	6849.7	6826.5	6889.8	7057.9	7636.0	8095.0	6430.8
35°	8408.0	8410.5	8148.0	7840.3	7496.3	7434.2	7540.3	7703.2	8214.0	8627.8	6680.3
37.5°	9333.8	9330.0	9101.1	8751.9	8282.5	8194.6	8316.1	8437.7	8936.8	9353.2	7068.3
40°	9983.0	10008.9	9901.5	9717.9	9273.1	9058.4	9165.7	9249.8	9723.1	10206.7	7579.1
42.5°	10351.5	10390.3	10413.6	10523.5	10289.5	10060.6	10021.8	10065.8	10425.2	10999.4	8058.8
45°	10430.4	10482.1	10651.5	11058.9	11149.4	11084.7	10958.0	10852.0	10949.0	11561.9	8373.0
47.5°	10082.6	10173.1	10535.2	11247.7	11776.6	11979.6	11838.6	11677.0	11251.6	11706.7	8340.7
50°	8704.1	8810.1	9626.1	10862.3	11865.8	12605.5	12618.4	12379.2	11215.3	11289.1	7934.7
52.5°	6891.1	6963.5	7430.3	9208.4	10990.3	12579.6	13096.9	12840.8	11040.8	10766.6	7426.5
55°	4118.6	4235.0	4670.8	6075.1	8561.8	11149.4	12251.1	12375.3	10955.4	10328.3	7079.9
57.5°	1390.1	1447.0	1863.4	2683.3	5045.8	8163.6	9465.7	9970.1	9945.5	9658.4	6403.6
60°	662.1	675.0	759.1	1017.7	2019.9	4266.0	5603.1	6185.1	6715.2	6768.3	3984.1
62.5°	504.3	512.1	554.8	610.4	812.1	1797.5	2568.2	3013.0	3218.6	2762.1	1450.9
65°	421.6	428.0	460.4	495.3	552.2	778.5	985.4	1136.7	1024.2	797.9	691.8
67.5°	351.7	356.9	381.5	419.0	457.8	521.1	547.0	562.5	589.7	662.1	636.2
70°	275.4	280.6	306.5	338.8	376.3	391.8	416.4	431.9	486.2	579.3	576.7
72.5°	212.1	218.5	232.8	253.5	284.5	300.0	327.2	345.3	376.3	451.3	482.3
75°	155.2	159.1	172.0	178.5	182.3	178.5	205.6	226.3	267.7	296.1	303.9
77.5°	63.4	71.1	68.5	68.5	81.5	98.3	112.5	125.4	153.9	170.7	172.0
80°	25.9	28.4	33.6	37.5	45.3	58.2	67.2	72.4	85.3	95.7	103.5
82.5°	15.5	16.8	19.4	20.7	25.9	33.6	38.8	42.7	53.0	63.4	67.2
85°	7.8	7.8	9.1	10.3	12.9	15.5	18.1	20.7	27.2	33.6	37.5
87.5°	1.3	1.3	1.3	2.6	3.9	5.2	6.5	7.8	9.1	10.3	12.9
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°	4872.5	4872.5	4872.5	4872.5	4872.5	4872.5	4872.5	4872.5	4872.5	4872.5	4872.5
2.5°	4875.1	4805.3	4723.8	4659.2	4584.2	4528.6	4449.7	4400.5	4354.0	4315.2	4286.7
5°	4880.3	4762.6	4593.2	4443.2	4288.0	4140.6	3989.3	3866.5	3756.6	3664.7	3657.0
7.5°	4910.0	4740.6	4475.5	4213.0	3910.4	3618.2	3325.9	3088.0	2907.0	2812.6	2793.2
10°	4960.5	4738.0	4355.3	3936.3	3420.3	2949.6	2603.1	2422.0	2317.3	2279.8	2266.9
12.5°	5013.5	4731.6	4201.4	3545.8	2829.4	2416.9	2226.8	2204.8	2224.2	2226.8	2225.5
15°	5078.1	4727.7	4007.4	3088.0	2397.5	2169.9	2182.8	2229.4	2274.6	2285.0	2285.0
17.5°	5157.0	4718.6	3743.6	2640.6	2127.2	2122.0	2190.6	2252.6	2295.3	2303.1	2303.1
20°	5239.8	4695.4	3419.0	2275.9	2017.3	2092.3	2166.0	2213.8	2243.6	2253.9	2255.2
22.5°	5296.7	4633.3	3045.3	2005.7	1948.8	2035.4	2088.4	2137.6	2137.6	2111.7	2103.9
25°	5308.3	4500.1	2640.6	1820.7	1867.3	1947.5	2001.8	1973.3	1920.3	1899.6	1898.3
27.5°	5265.6	4306.1	2241.0	1688.8	1769.0	1849.2	1840.1	1798.7	1775.5	1754.8	1762.5
30°	5213.9	4073.4	1894.4	1580.2	1655.2	1734.1	1703.1	1688.8	1672.0	1648.7	1653.9
32.5°	5179.0	3813.5	1628.1	1496.2	1578.9	1591.8	1613.8	1612.5	1597.0	1553.1	1550.5
35°	5189.3	3550.9	1449.6	1427.6	1515.6	1510.4	1551.8	1544.0	1436.7	1375.9	1372.0
37.5°	5272.1	3298.8	1344.9	1373.3	1414.7	1447.0	1483.2	1390.1	1352.6	1313.8	1316.4
40°	5429.9	3064.7	1288.0	1343.6	1353.9	1401.8	1317.7	1316.4	1299.6	1264.7	1263.4
42.5°	5608.3	2866.9	1249.2	1329.3	1315.1	1324.2	1234.9	1245.3	1244.0	1222.0	1215.5
45°	5716.9	2684.5	1218.1	1276.3	1280.2	1189.7	1162.5	1174.2	1180.6	1169.0	1167.7
47.5°	5604.4	2475.1	1185.8	1194.9	1228.5	1128.9	1095.3	1096.6	1108.2	1109.5	1104.3
50°	5288.9	2241.0	1147.0	1125.0	1103.0	1065.5	1034.5	1028.0	1039.7	1051.3	1055.2
52.5°	4881.6	2017.3	1082.4	1048.7	997.0	997.0	982.8	962.1	977.6	993.1	998.3
55°	4582.9	1851.8	990.5	953.0	896.1	915.5	913.0	894.8	915.5	927.2	931.1
57.5°	3971.2	1488.4	871.6	859.9	812.1	835.4	840.5	817.3	806.9	809.5	813.4
60°	2357.4	960.8	786.2	784.9	742.3	769.4	784.9	761.7	730.6	734.5	739.7
62.5°	1057.8	734.5	678.9	673.7	672.4	707.3	724.2	702.2	658.2	662.1	667.3
65°	666.0	634.9	589.7	589.7	610.4	640.1	653.0	634.9	584.5	578.0	583.2
67.5°	618.1	591.0	544.4	535.4	545.7	570.3	571.6	536.7	506.9	501.7	501.7
70°	554.8	534.1	488.8	470.7	466.8	465.5	461.6	452.6	433.2	428.0	430.6
72.5°	459.1	444.8	416.4	397.0	386.6	385.4	369.8	362.1	345.3	342.7	341.4
75°	303.9	307.8	307.8	305.2	296.1	292.2	275.4	267.7	248.3	240.5	239.2
77.5°	179.7	183.6	188.8	190.1	188.8	188.8	173.3	164.2	144.8	134.5	131.9
80°	109.9	112.5	115.1	119.0	113.8	109.9	95.7	86.6	77.6	71.1	69.8
82.5°	71.1	73.7	75.0	77.6	75.0	69.8	58.2	53.0	46.6	41.4	40.1
85°	40.1	41.4	44.0	44.0	40.1	36.2	29.7	25.9	22.0	19.4	19.4
87.5°	14.2	14.2	14.2	15.5	12.9	11.6	7.8	5.2	3.9	3.9	3.9
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)