

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: P640005

Luminaire Tested: GWS-SA5D-722-U-AFL-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640005
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-45)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5D-722-U-AFL-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND
AUTOMOTIVE FRONTLINE OPTICS
Light Source: (80) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22533.3 lumens
Efficiency: N/A
Efficacy: 110.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

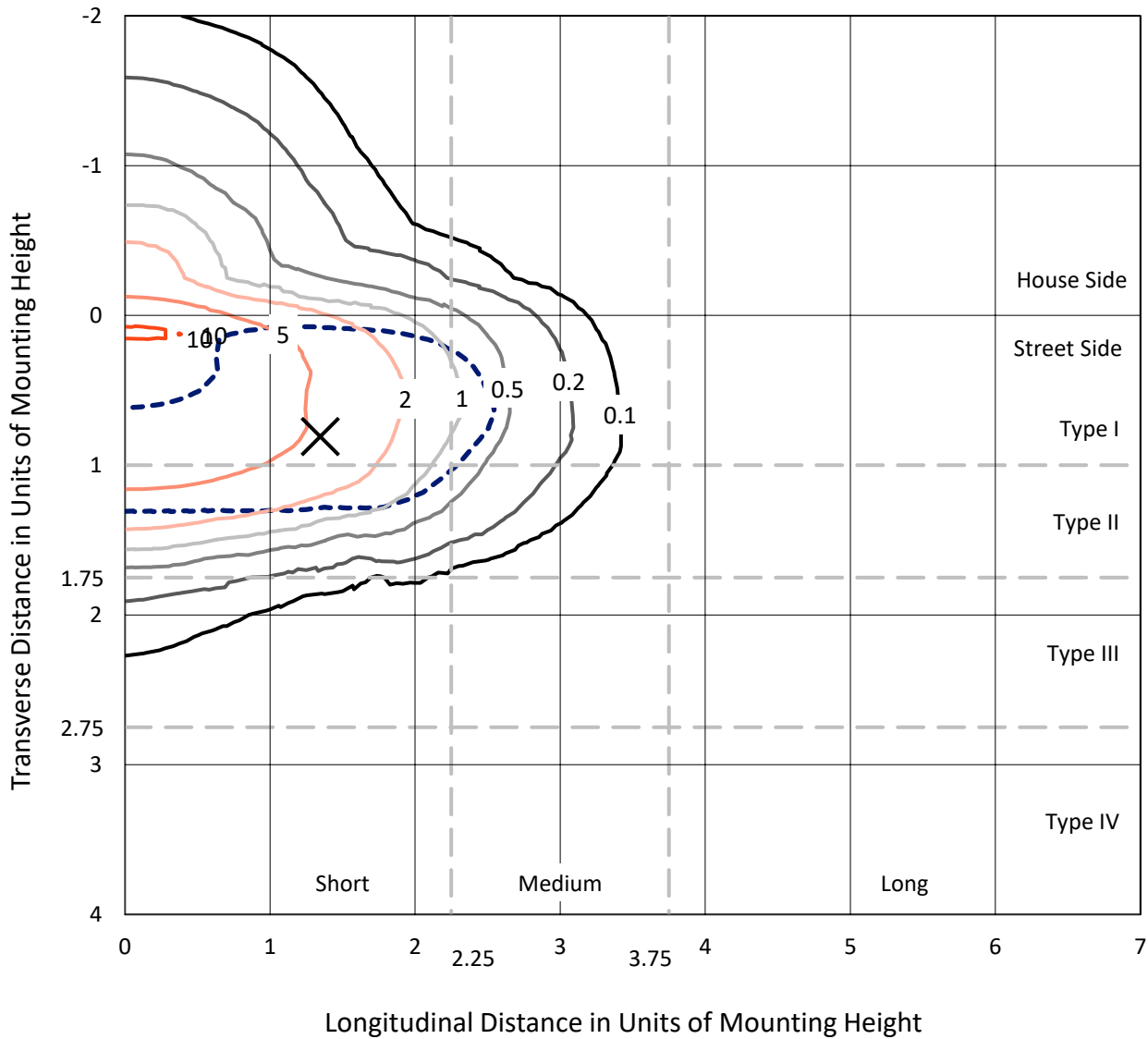
Input Watts (W): 204.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

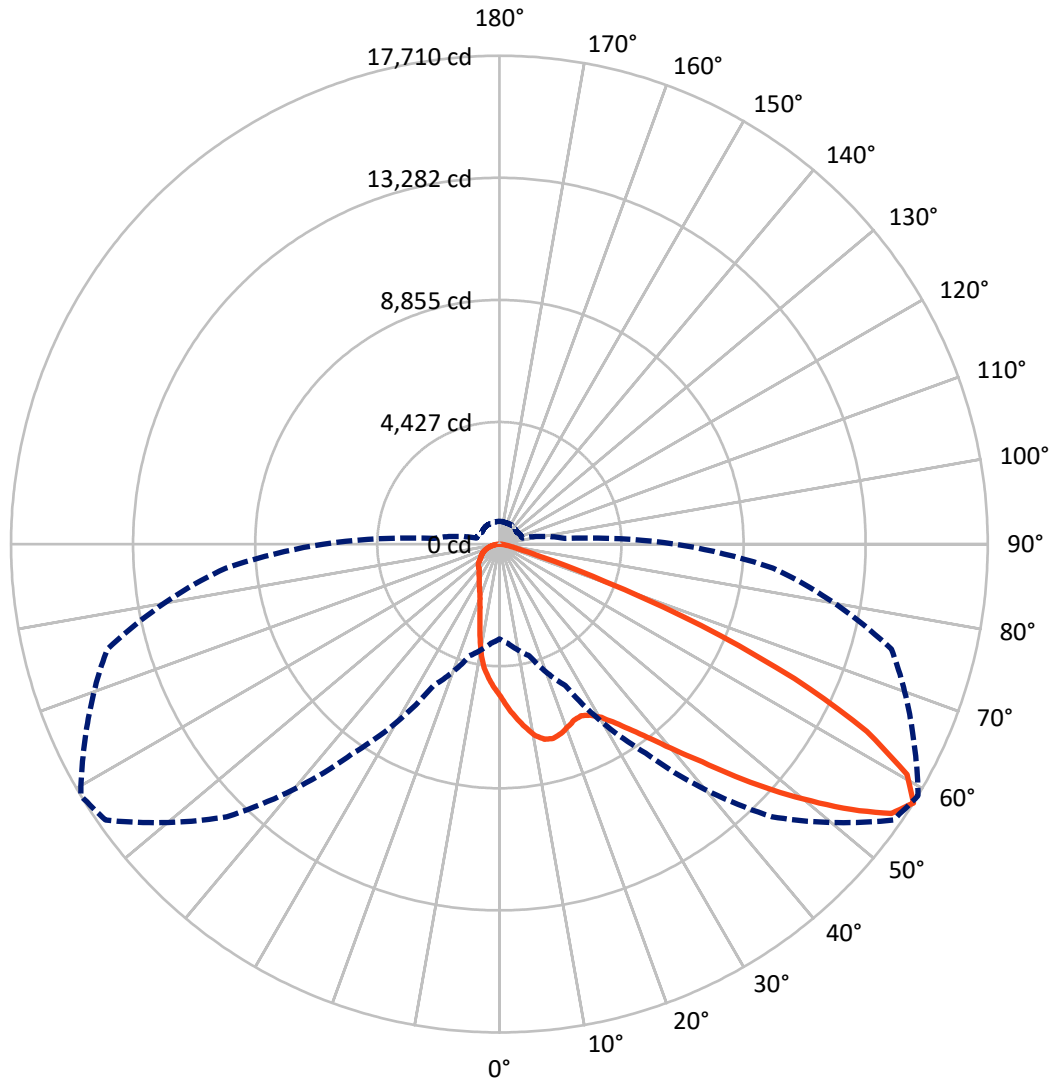
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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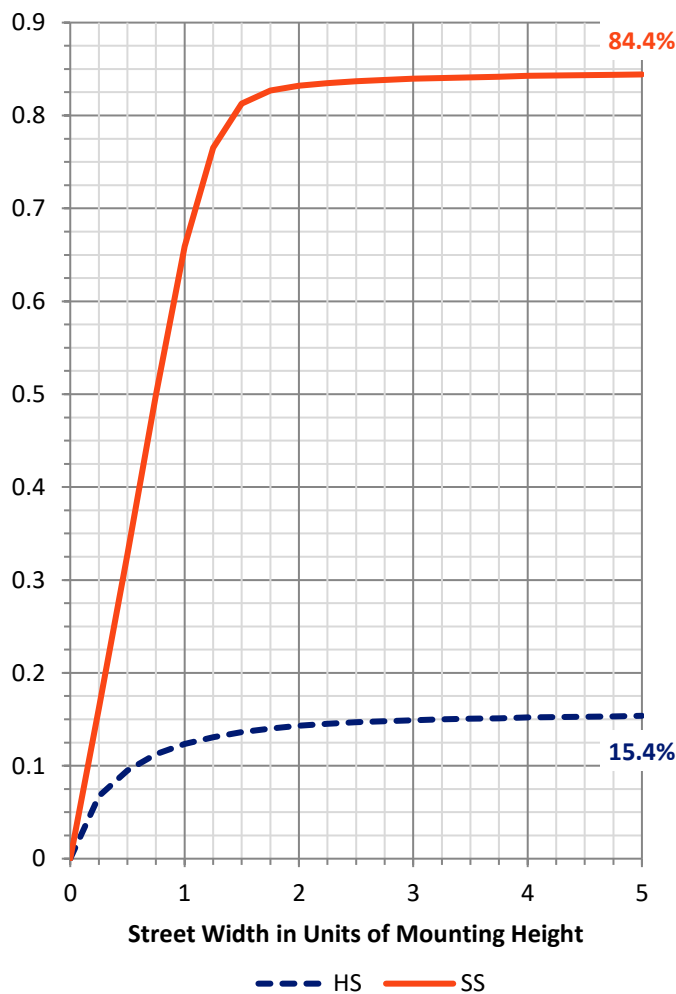
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3497.1	0.0	3497.1
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	19036.3	0.0	19036.3
	% Fixture	84.5	0.0	84.5
Total	Lumens	22533.3	0.0	22533.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	513.6	2.3
10°-20°	1301.5	5.8
20°-30°	2109.7	9.4
30°-40°	3393.8	15.1
40°-50°	5270.2	23.4
50°-60°	5676.7	25.2
60°-70°	3294.5	14.6
70°-80°	860.1	3.8
80°-90°	113.3	0.5
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°	22533.3	100.0
0°-180°	22533.3	100.0

Coefficient of Utilization



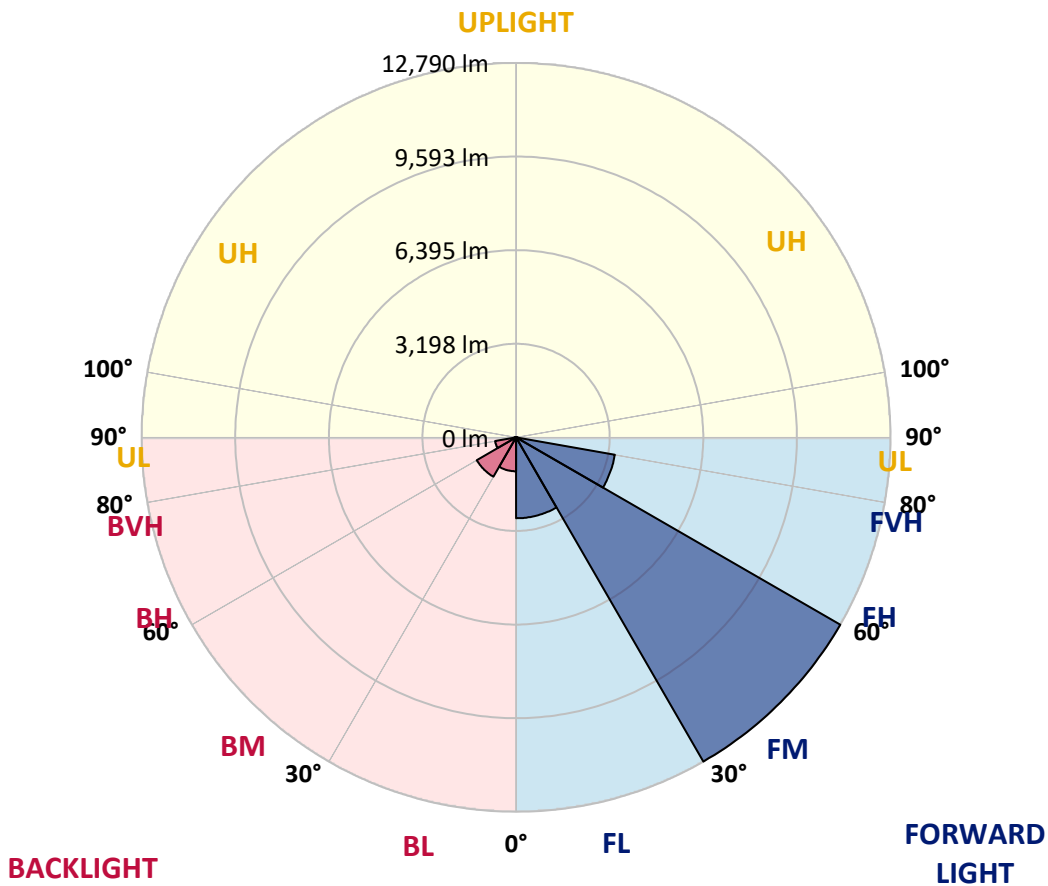
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2764.6	12.3			
FM (30°-60°)	12790.2	56.8			
FH (60°-80°)	3427.2	15.2			G2/5000
FVH (80°-90°)	54.2	0.2			G1/100
BL (0°-30°)	1160.2	5.1	B3/2500		
BM (30°-60°)	1550.5	6.9	B2/2500		
BH (60°-80°)	727.4	3.2	B2/1000		G2/1000
BVH (80°-90°)	59.1	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-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	5531.5	5531.5	5531.5	5531.5	5531.5	5531.5	5531.5	5531.5	5531.5	5531.5	5531.5
2.5°	6273.9	6221.5	6258.0	6193.0	6166.0	6094.6	6002.6	5940.7	5845.6	5721.8	5614.0
5°	6897.3	6860.8	6868.7	6798.9	6737.1	6618.1	6429.3	6324.6	6162.8	5913.8	5682.2
7.5°	6878.3	6921.1	6944.9	7005.2	7022.6	7011.5	6841.8	6695.8	6518.2	6143.8	5794.8
10°	6166.0	6246.9	6319.9	6526.1	6776.7	7094.0	7133.7	7046.4	6867.2	6437.3	5929.6
12.5°	5390.3	5452.2	5517.2	5764.7	6148.6	6783.1	7213.0	7266.9	7195.5	6727.6	6081.9
15°	5009.6	5038.1	5100.0	5263.4	5569.5	6273.9	7075.0	7311.3	7439.8	7035.3	6253.2
17.5°	4993.7	5006.4	5036.5	5123.8	5336.4	5880.5	6825.9	7222.5	7631.8	7360.5	6453.1
20°	5322.1	5288.8	5269.7	5268.1	5372.8	5748.8	6584.8	7079.7	7722.2	7693.6	6667.3
22.5°	5777.4	5788.5	5747.2	5645.7	5633.0	5842.4	6464.2	6935.4	7749.1	7988.7	6865.6
25°	6423.0	6478.5	6356.4	6162.8	6067.6	6113.7	6538.8	6890.9	7746.0	8234.6	6989.3
27.5°	7176.5	7219.3	7095.6	6841.8	6645.1	6534.0	6760.9	7022.6	7772.9	8447.1	7063.9
30°	8034.7	8049.0	7879.2	7612.7	7325.6	7087.6	7130.5	7293.9	7910.9	8726.3	7151.1
32.5°	9083.2	9143.5	8886.5	8464.6	8063.2	7758.7	7627.0	7731.7	8209.2	9056.3	7285.9
35°	10414.1	10434.8	10108.0	9503.6	8935.7	8513.7	8237.7	8293.2	8662.9	9517.9	7489.0
37.5°	11668.9	11689.5	11342.1	10780.6	9968.4	9391.0	8991.2	8965.8	9243.4	10169.9	7820.5
40°	12465.3	12523.9	12368.5	12016.3	11240.6	10461.7	9919.2	9832.0	10004.9	10967.8	8282.1
42.5°	12893.6	12918.9	12915.8	12961.8	12500.1	11726.0	10966.2	10791.7	10907.5	11829.1	8748.5
45°	12896.7	12960.2	13129.9	13572.5	13593.1	13110.9	12289.2	12016.3	11910.0	12696.9	9235.5
47.5°	12319.3	12387.5	12853.9	13724.8	14367.2	14476.7	13873.9	13326.6	12879.3	13444.0	9635.3
50°	10571.2	10742.5	11630.8	13171.2	14519.5	15571.3	15385.7	14643.3	13740.6	14021.4	9885.9
52.5°	9053.1	9046.7	9594.0	11607.1	13883.4	16053.5	16848.2	15998.0	14592.5	14387.9	9949.4
55°	6629.2	6665.7	7225.7	8877.0	12186.1	15587.1	17652.5	17244.8	15569.7	14583.0	9924.0
57.5°	3437.5	3618.4	4192.6	5664.7	9259.3	13981.8	17438.3	17709.6	16562.7	14721.0	9957.3
60°	1737.0	1702.1	1908.3	2704.7	5364.9	10920.2	16118.5	16983.1	16742.0	14828.9	9977.9
62.5°	1159.6	1150.1	1093.0	1253.2	2192.3	6467.4	13740.6	14952.6	15496.7	14575.0	9714.6
65°	1004.1	985.1	880.4	874.1	1064.4	2682.5	10071.5	11754.6	12807.9	13447.2	9084.8
67.5°	904.2	875.6	769.4	717.0	764.6	1178.6	5675.8	7884.0	9457.6	11372.3	7704.7
70°	807.4	793.2	686.9	610.7	606.0	718.6	2090.8	4068.9	5786.9	7758.7	5633.0
72.5°	723.4	698.0	607.6	534.6	498.1	509.2	907.4	1567.3	2995.0	4839.8	3369.3
75°	626.6	607.6	528.2	455.3	410.9	372.8	553.6	724.9	1365.8	2300.2	1591.1
77.5°	483.8	471.1	417.2	361.7	336.3	277.6	336.3	456.9	631.4	969.2	828.1
80°	280.8	288.7	310.9	282.4	247.5	198.3	218.9	263.3	379.1	525.1	469.5
82.5°	141.2	150.7	201.5	163.4	147.5	115.8	130.1	155.5	198.3	290.3	184.0
85°	11.1	11.1	36.5	41.2	50.8	41.2	52.3	63.5	90.4	115.8	61.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	4.8	7.9	14.3	27.0	17.4
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°	5531.5	5531.5	5531.5	5531.5	5531.5	5531.5	5531.5	5531.5	5531.5	5531.5	5531.5
2.5°	5541.0	5460.1	5363.3	5284.0	5161.9	5096.8	5014.3	4912.8	4871.6	4852.5	4841.4
5°	5552.1	5409.3	5203.1	5012.8	4801.8	4635.2	4449.6	4256.1	4145.0	4118.1	4099.0
7.5°	5593.3	5393.5	5065.1	4751.0	4359.2	3995.9	3642.2	3291.6	3112.3	3044.1	3037.8
10°	5650.4	5387.1	4925.5	4403.6	3742.1	3167.9	2753.8	2479.4	2363.6	2325.5	2312.8
12.5°	5721.8	5382.4	4741.5	3921.4	3029.9	2487.3	2251.0	2206.6	2222.4	2219.3	2219.3
15°	5812.3	5388.7	4519.4	3375.7	2450.9	2159.0	2163.7	2216.1	2265.3	2273.2	2273.2
17.5°	5910.6	5382.4	4197.4	2828.4	2103.5	2081.2	2154.2	2227.2	2271.6	2277.9	2277.9
20°	6016.9	5352.2	3791.3	2312.8	1951.2	2032.1	2111.4	2168.5	2195.5	2201.8	2201.8
22.5°	6080.3	5266.6	3350.3	1957.5	1854.4	1954.3	2006.7	2065.4	2068.6	2017.8	2016.2
25°	6070.8	5106.3	2847.4	1729.1	1751.3	1838.5	1905.2	1863.9	1813.2	1784.6	1779.8
27.5°	6010.5	4865.2	2335.1	1556.2	1629.1	1727.5	1706.9	1672.0	1659.3	1627.6	1624.4
30°	5934.4	4568.6	1875.0	1421.3	1502.2	1592.7	1560.9	1557.8	1545.1	1510.2	1510.2
32.5°	5861.4	4262.4	1527.6	1321.4	1421.3	1427.7	1472.1	1475.3	1468.9	1408.6	1402.3
35°	5840.8	3956.3	1292.8	1242.1	1342.0	1338.8	1402.3	1400.7	1291.3	1207.2	1205.6
37.5°	5902.7	3645.3	1153.2	1177.0	1232.6	1273.8	1324.6	1232.6	1196.1	1145.3	1142.1
40°	6034.3	3358.2	1081.9	1139.0	1162.8	1223.0	1143.7	1150.1	1140.6	1102.5	1097.7
42.5°	6208.8	3113.9	1042.2	1126.3	1123.1	1139.0	1051.7	1077.1	1091.4	1062.8	1058.1
45°	6377.0	2901.4	1021.6	1078.7	1094.6	1002.6	985.1	1008.9	1031.1	1020.0	1015.2
47.5°	6500.7	2717.4	1010.5	1013.7	1058.1	956.5	928.0	939.1	966.1	970.8	969.2
50°	6538.8	2560.3	997.8	959.7	950.2	910.5	888.3	885.2	916.9	939.1	942.3
52.5°	6465.8	2420.7	964.5	912.1	866.1	872.5	864.5	848.7	880.4	910.5	913.7
55°	6357.9	2341.4	912.1	866.1	812.2	837.6	840.7	826.5	847.1	867.7	867.7
57.5°	6365.9	2387.4	861.4	823.3	764.6	797.9	815.4	809.0	809.0	824.9	826.5
60°	6418.2	2454.0	828.1	769.4	717.0	751.9	791.6	785.2	770.9	791.6	791.6
62.5°	6267.5	2365.2	805.8	717.0	666.3	707.5	755.1	751.9	736.0	769.4	772.5
65°	5823.4	2127.2	780.5	652.0	615.5	663.1	704.3	715.4	701.2	745.6	753.5
67.5°	4881.1	1789.4	731.3	590.1	564.7	609.1	648.8	664.7	653.6	705.9	712.3
70°	3639.0	1448.3	653.6	521.9	502.9	542.5	579.0	585.3	586.9	648.8	655.1
72.5°	2320.8	1126.3	550.5	445.8	431.5	461.6	488.6	514.0	525.1	583.8	582.2
75°	1294.4	837.6	442.6	377.5	352.2	376.0	407.7	437.8	469.5	555.2	564.7
77.5°	745.6	588.5	350.6	303.0	272.8	298.2	325.2	368.0	463.2	537.8	528.2
80°	420.4	382.3	264.9	222.1	203.0	222.1	242.7	323.6	364.9	396.6	401.3
82.5°	196.7	214.2	180.8	136.4	136.4	149.1	168.1	250.6	276.0	225.3	196.7
85°	71.4	96.8	88.8	69.8	61.9	60.3	104.7	142.8	88.8	79.3	68.2
87.5°	19.0	27.0	25.4	17.4	9.5	7.9	0.0	0.0	0.0	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)