

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: P637530

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

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637530
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-SA4D-722-U-AFL-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18368.8 lumens
Efficiency: N/A
Efficacy: 113.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

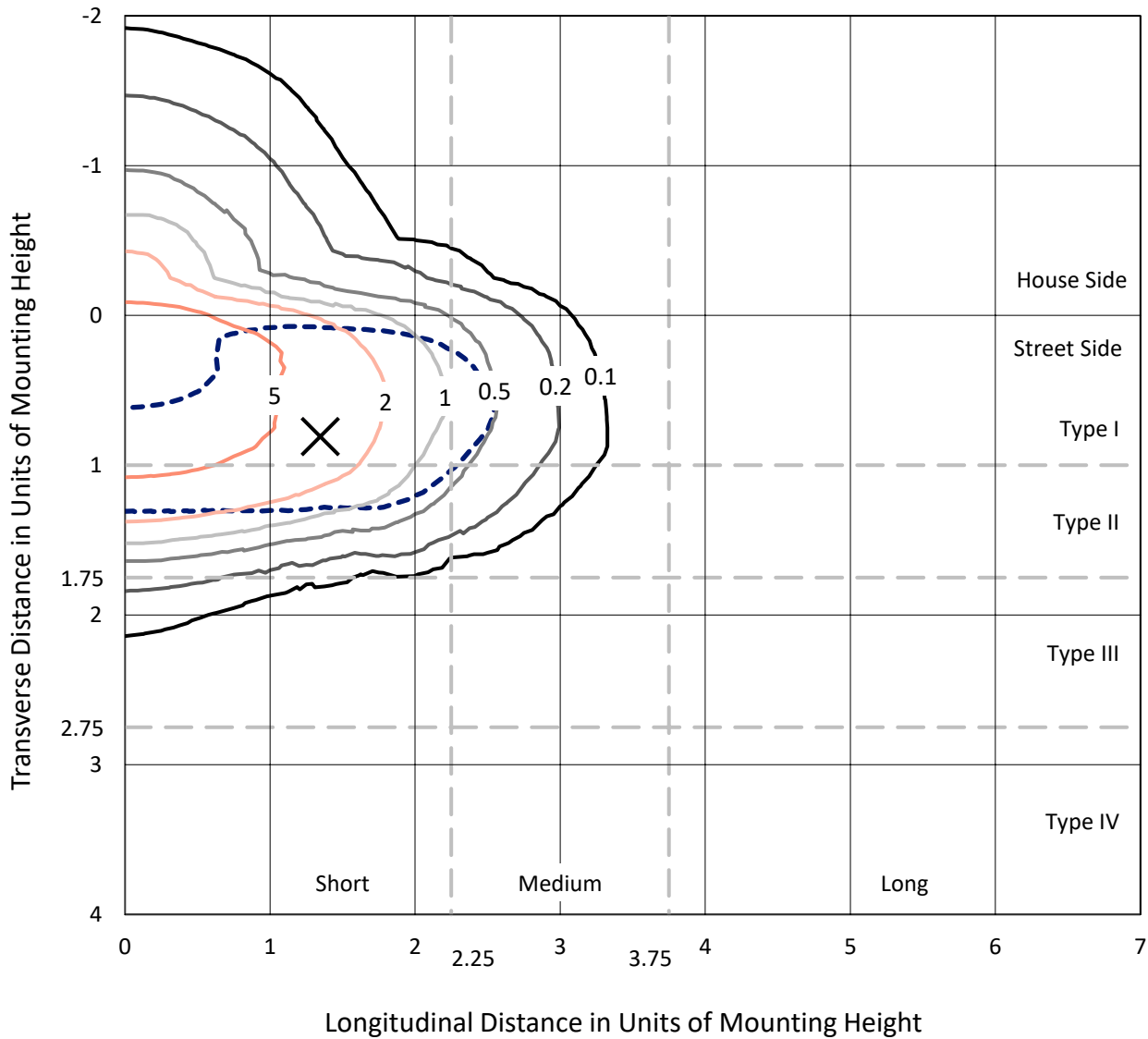
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

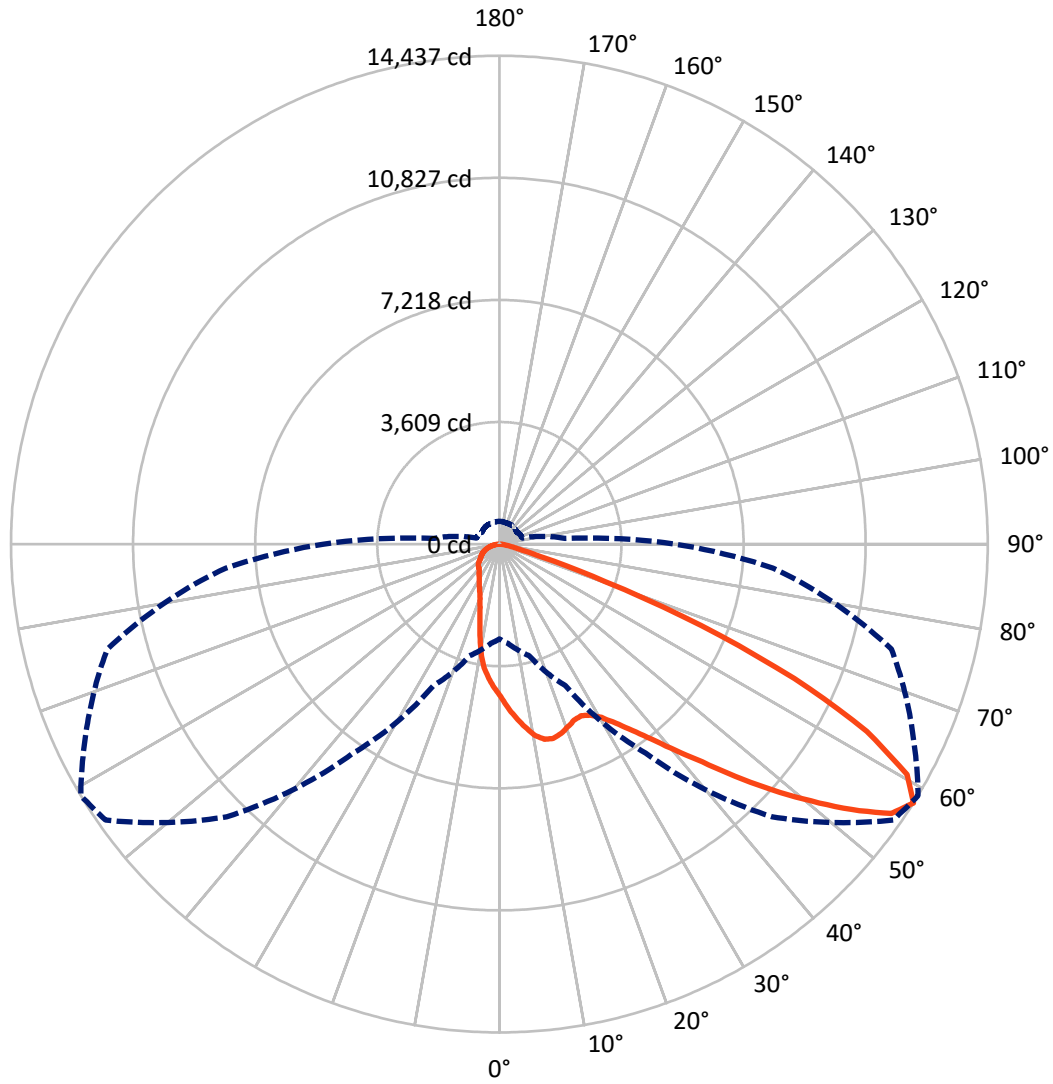
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 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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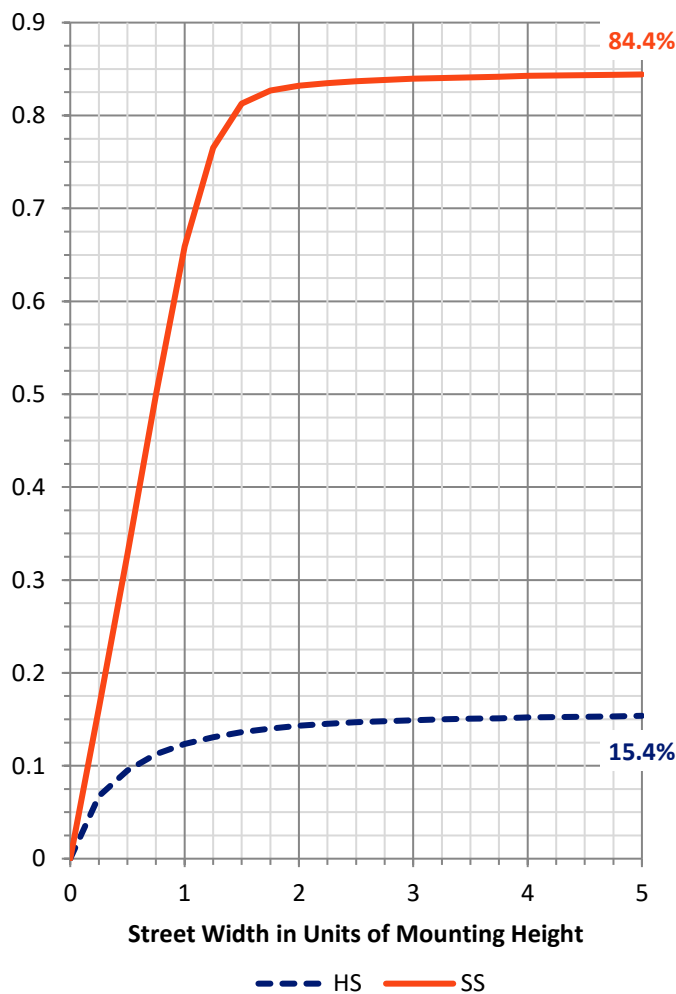
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2850.7	0.0	2850.7
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	15518.1	0.0	15518.1
	% Fixture	84.5	0.0	84.5
Total	Lumens	18368.8	0.0	18368.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	418.7	2.3
10°-20°	1060.9	5.8
20°-30°	1719.8	9.4
30°-40°	2766.5	15.1
40°-50°	4296.2	23.4
50°-60°	4627.5	25.2
60°-70°	2685.6	14.6
70°-80°	701.1	3.8
80°-90°	92.4	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°	18368.8	100.0
0°-180°	18368.8	100.0

Coefficient of Utilization



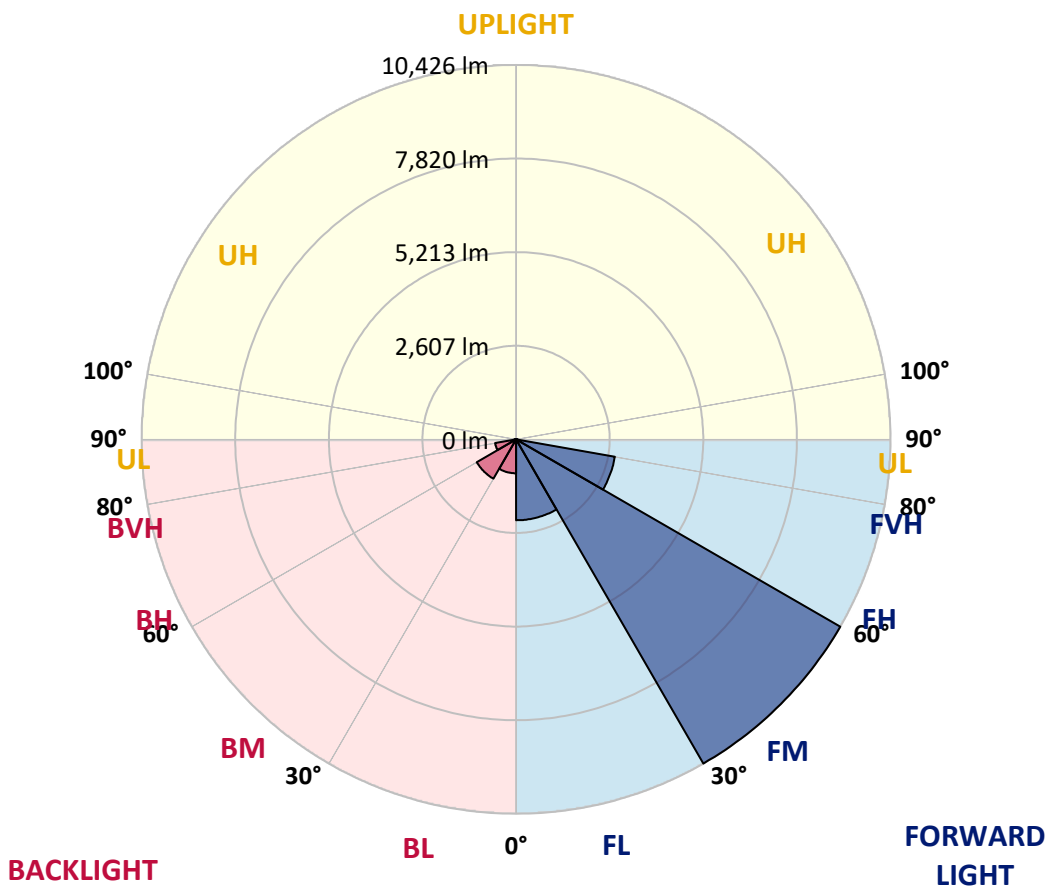
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2253.7	12.3			
FM (30°-60°)	10426.3	56.8			
FH (60°-80°)	2793.8	15.2			G2/5000
FVH (80°-90°)	44.2	0.2			G1/100
BL (0°-30°)	945.8	5.1	B2/1000		
BM (30°-60°)	1263.9	6.9	B2/2500		
BH (60°-80°)	592.9	3.2	B2/1000		G2/1000
BVH (80°-90°)	48.1	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	4509.2	4509.2	4509.2	4509.2	4509.2	4509.2	4509.2	4509.2	4509.2	4509.2	4509.2
2.5°	5114.4	5071.7	5101.4	5048.4	5026.4	4968.2	4893.2	4842.8	4765.2	4664.3	4576.4
5°	5622.6	5592.8	5599.3	5542.4	5492.0	5395.0	5241.1	5155.7	5023.8	4820.8	4632.0
7.5°	5607.0	5642.0	5661.4	5710.5	5724.7	5715.7	5577.3	5458.3	5313.5	5008.3	4723.8
10°	5026.4	5092.4	5151.9	5320.0	5524.3	5782.9	5815.2	5744.1	5598.0	5247.6	4833.8
12.5°	4394.1	4444.5	4497.5	4699.3	5012.2	5529.5	5879.9	5923.9	5865.7	5484.2	4957.9
15°	4083.7	4107.0	4157.4	4290.6	4540.2	5114.4	5767.4	5960.1	6064.8	5735.1	5097.6
17.5°	4070.8	4081.1	4105.7	4176.8	4350.1	4793.7	5564.4	5887.7	6221.3	6000.2	5260.5
20°	4338.5	4311.3	4295.8	4294.5	4379.9	4686.3	5367.8	5771.3	6295.0	6271.7	5435.1
22.5°	4709.6	4718.7	4685.0	4602.3	4591.9	4762.6	5269.5	5653.6	6317.0	6512.2	5596.7
25°	5235.9	5281.2	5181.6	5023.8	4946.3	4983.8	5330.3	5617.4	6314.4	6712.7	5697.6
27.5°	5850.2	5885.1	5784.2	5577.3	5417.0	5326.4	5511.4	5724.7	6336.4	6886.0	5758.3
30°	6549.7	6561.4	6423.0	6205.8	5971.7	5777.7	5812.7	5945.8	6448.9	7113.6	5829.5
32.5°	7404.5	7453.6	7244.2	6900.2	6573.0	6324.7	6217.4	6302.8	6692.0	7382.5	5939.4
35°	8489.5	8506.3	8239.9	7747.2	7284.2	6940.3	6715.3	6760.5	7061.8	7758.8	6104.9
37.5°	9512.3	9529.1	9245.9	8788.2	8126.1	7655.4	7329.5	7308.8	7535.1	8290.3	6375.2
40°	10161.5	10209.3	10082.6	9795.5	9163.2	8528.2	8086.0	8014.9	8155.8	8940.8	6751.5
42.5°	10510.6	10531.3	10528.7	10566.2	10189.9	9558.9	8939.5	8797.2	8891.6	9642.9	7131.7
45°	10513.2	10564.9	10703.3	11064.1	11080.9	10687.8	10017.9	9795.5	9708.9	10350.3	7528.7
47.5°	10042.5	10098.1	10478.3	11188.2	11712.0	11801.2	11309.8	10863.7	10499.0	10959.3	7854.5
50°	8617.5	8757.1	9481.3	10736.9	11836.1	12693.4	12542.1	11937.0	11201.2	11430.0	8058.8
52.5°	7379.9	7374.8	7820.9	9461.9	11317.5	13086.6	13734.4	13041.3	11895.6	11728.8	8110.6
55°	5404.0	5433.8	5890.2	7236.4	9933.9	12706.4	14390.0	14057.7	12692.2	11887.8	8089.9
57.5°	2802.2	2949.6	3417.8	4617.8	7548.0	11397.7	14215.5	14436.6	13501.7	12000.3	8117.0
60°	1416.0	1387.5	1555.6	2204.8	4373.4	8902.0	13139.6	13844.3	13647.8	12088.3	8133.8
62.5°	945.3	937.5	891.0	1021.6	1787.1	5272.1	11201.2	12189.1	12632.7	11881.4	7919.2
65°	818.6	803.0	717.7	712.5	867.7	2186.7	8210.1	9582.2	10440.8	10961.9	7405.8
67.5°	737.1	713.8	627.2	584.5	623.3	960.8	4626.8	6426.9	7709.7	9270.5	6280.8
70°	658.2	646.6	559.9	497.9	494.0	585.8	1704.4	3316.9	4717.4	6324.7	4591.9
72.5°	589.7	569.0	495.3	435.8	406.0	415.1	739.7	1277.6	2441.4	3945.4	2746.6
75°	510.8	495.3	430.6	371.1	334.9	303.9	451.3	591.0	1113.4	1875.1	1297.0
77.5°	394.4	384.1	340.1	294.8	274.1	226.3	274.1	372.4	514.7	790.1	675.0
80°	228.9	235.4	253.5	230.2	201.7	161.6	178.5	214.7	309.1	428.0	382.8
82.5°	115.1	122.8	164.2	133.2	120.3	94.4	106.0	126.7	161.6	236.6	150.0
85°	9.1	9.1	29.7	33.6	41.4	33.6	42.7	51.7	73.7	94.4	50.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.9	6.5	11.6	22.0	14.2
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°	4509.2	4509.2	4509.2	4509.2	4509.2	4509.2	4509.2	4509.2	4509.2	4509.2	4509.2
2.5°	4516.9	4451.0	4372.1	4307.4	4207.9	4154.9	4087.6	4004.8	3971.2	3955.7	3946.7
5°	4526.0	4409.6	4241.5	4086.3	3914.3	3778.5	3627.3	3469.5	3379.0	3357.0	3341.5
7.5°	4559.6	4396.7	4129.0	3872.9	3553.5	3257.4	2969.0	2683.3	2537.1	2481.5	2476.4
10°	4606.2	4391.5	4015.2	3589.8	3050.5	2582.4	2244.9	2021.2	1926.8	1895.7	1885.4
12.5°	4664.3	4387.6	3865.2	3196.6	2469.9	2027.6	1835.0	1798.8	1811.7	1809.1	1809.1
15°	4738.1	4392.8	3684.2	2751.8	1997.9	1760.0	1763.8	1806.5	1846.6	1853.1	1853.1
17.5°	4818.2	4387.6	3421.6	2305.7	1714.7	1696.6	1756.1	1815.6	1851.8	1856.9	1856.9
20°	4904.9	4363.0	3090.6	1885.4	1590.6	1656.5	1721.2	1767.7	1789.7	1794.9	1794.9
22.5°	4956.6	4293.2	2731.1	1595.7	1511.7	1593.1	1635.8	1683.7	1686.3	1644.9	1643.6
25°	4948.8	4162.6	2321.2	1409.5	1427.6	1498.7	1553.1	1519.4	1478.1	1454.8	1450.9
27.5°	4899.7	3966.1	1903.5	1268.6	1328.1	1408.2	1391.4	1363.0	1352.6	1326.8	1324.2
30°	4837.6	3724.2	1528.5	1158.7	1224.6	1298.3	1272.4	1269.9	1259.5	1231.1	1231.1
32.5°	4778.1	3474.7	1245.3	1077.2	1158.7	1163.8	1200.0	1202.6	1197.4	1148.3	1143.1
35°	4761.3	3225.1	1053.9	1012.5	1094.0	1091.4	1143.1	1141.8	1052.6	984.1	982.8
37.5°	4811.8	2971.6	940.1	959.5	1004.8	1038.4	1079.8	1004.8	975.0	933.6	931.1
40°	4919.1	2737.6	881.9	928.5	947.9	997.0	932.4	937.5	929.8	898.7	894.9
42.5°	5061.3	2538.4	849.6	918.1	915.5	928.5	857.4	878.0	889.7	866.4	862.5
45°	5198.4	2365.1	832.8	879.3	892.3	817.3	803.0	822.4	840.5	831.5	827.6
47.5°	5299.3	2215.1	823.7	826.3	862.5	779.8	756.5	765.5	787.5	791.4	790.1
50°	5330.3	2087.1	813.4	782.3	774.6	742.3	724.2	721.6	747.4	765.5	768.1
52.5°	5270.8	1973.3	786.2	743.6	706.1	711.2	704.8	691.8	717.7	742.3	744.8
55°	5182.9	1908.7	743.6	706.1	662.1	682.8	685.4	673.7	690.5	707.3	707.3
57.5°	5189.4	1946.2	702.2	671.1	623.3	650.4	664.7	659.5	659.5	672.4	673.7
60°	5232.0	2000.5	675.0	627.2	584.5	612.9	645.3	640.1	628.5	645.3	645.3
62.5°	5109.2	1928.1	656.9	584.5	543.1	576.7	615.5	612.9	600.0	627.2	629.8
65°	4747.1	1734.1	636.2	531.5	501.7	540.5	574.2	583.2	571.6	607.8	614.2
67.5°	3979.0	1458.7	596.1	481.0	460.4	496.6	528.9	541.8	532.8	575.4	580.6
70°	2966.5	1180.6	532.8	425.4	409.9	442.3	472.0	477.2	478.5	528.9	534.1
72.5°	1891.9	918.1	448.7	363.4	351.7	376.3	398.3	419.0	428.0	475.9	474.6
75°	1055.2	682.8	360.8	307.8	287.1	306.5	332.3	356.9	382.8	452.6	460.4
77.5°	607.8	479.8	285.8	247.0	222.4	243.1	265.1	300.0	377.6	438.4	430.6
80°	342.7	311.6	216.0	181.0	165.5	181.0	197.9	263.8	297.4	323.3	327.2
82.5°	160.3	174.6	147.4	111.2	111.2	121.6	137.1	204.3	225.0	183.6	160.3
85°	58.2	78.9	72.4	56.9	50.4	49.1	85.3	116.4	72.4	64.7	55.6
87.5°	15.5	22.0	20.7	14.2	7.8	6.5	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)