

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: P638517

Luminaire Tested: GWS-SA4F-722-U-AFL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638517
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-SA4F-722-U-AFL-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18875.6 lumens
Efficiency: N/A
Efficacy: 83.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

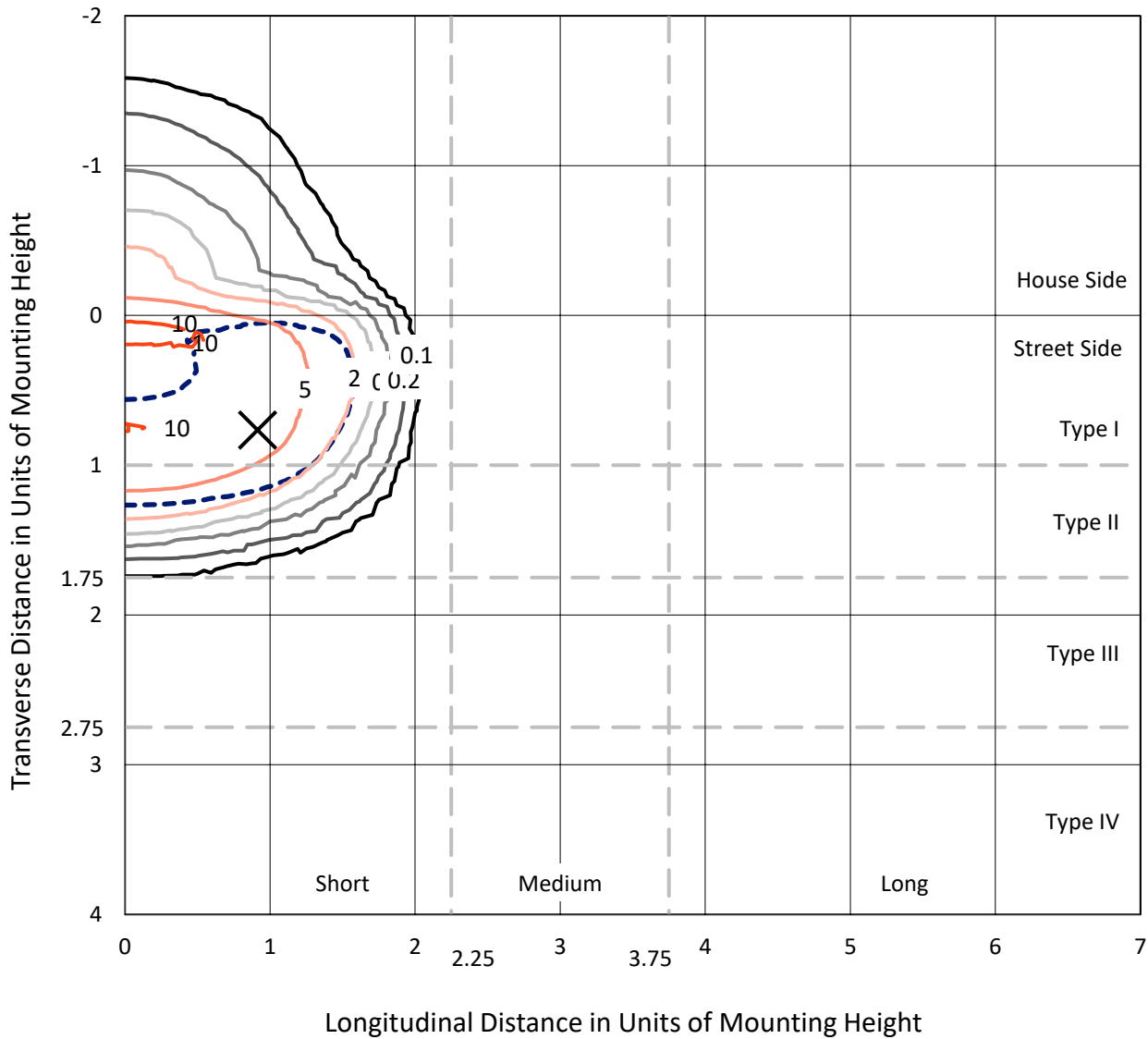
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

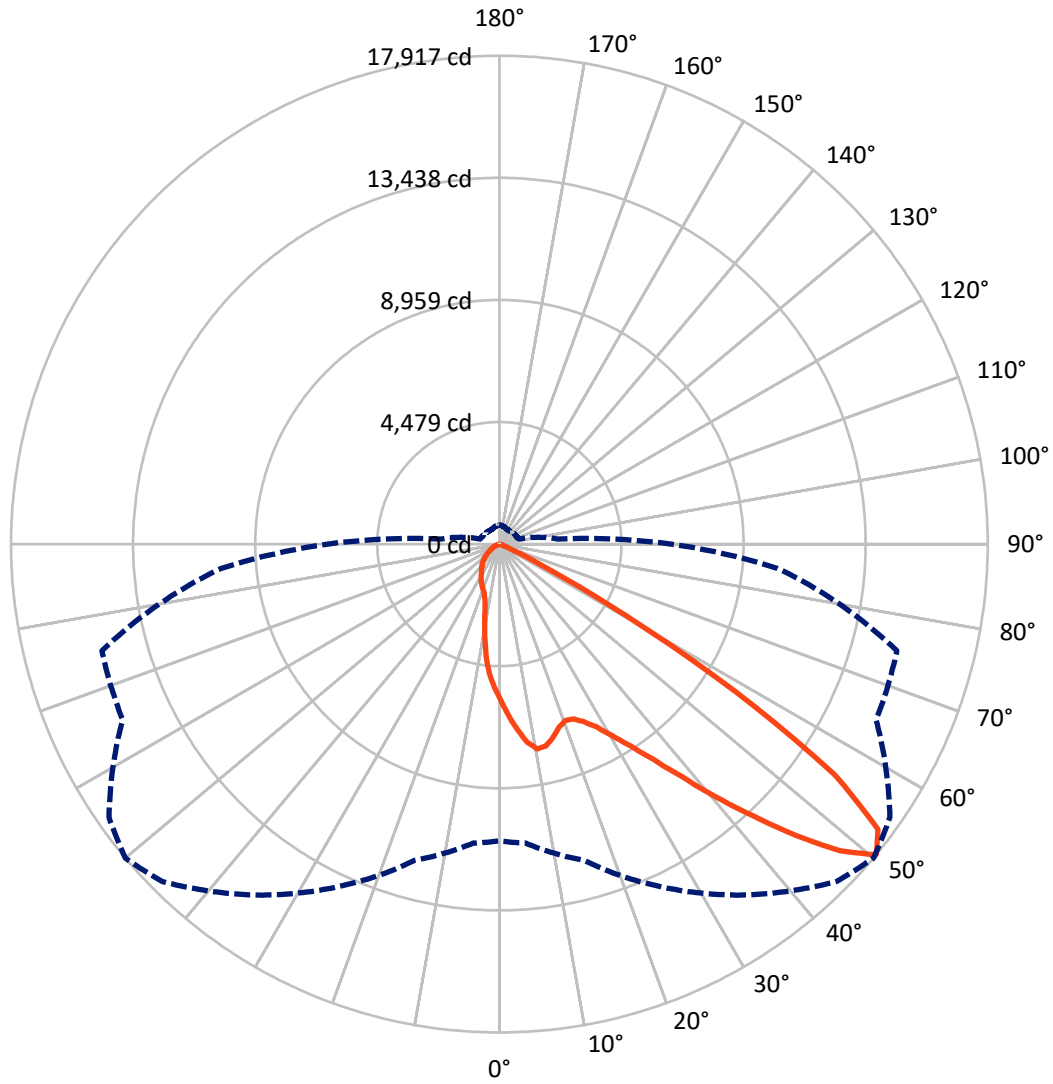
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.7 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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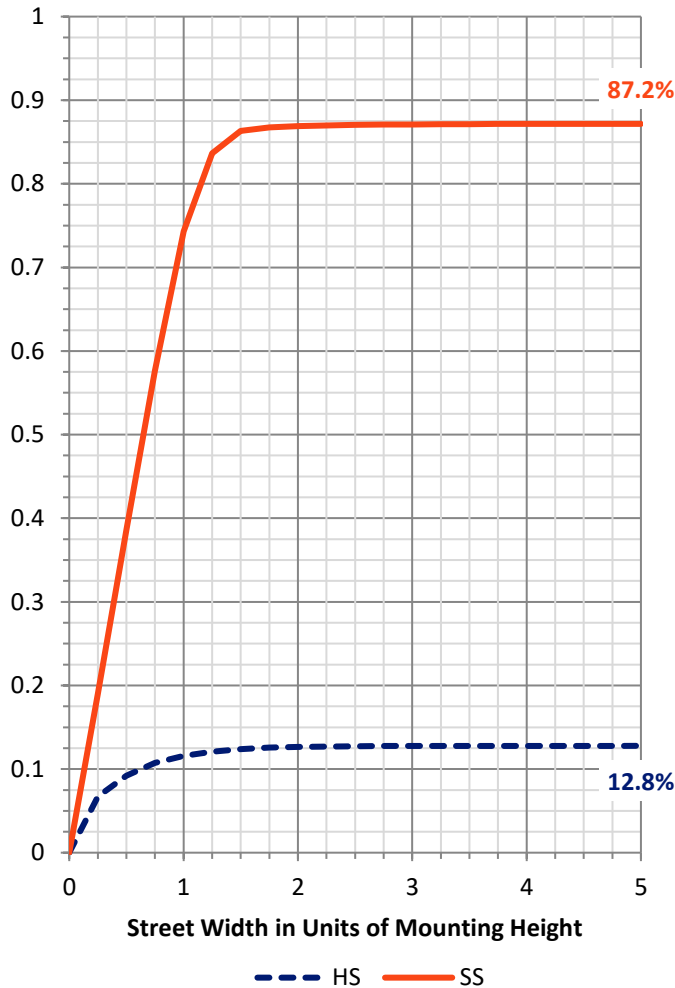
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2425.2	0.0	2425.2
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	16450.4	0.0	16450.4
	% Fixture	87.2	0.0	87.2
Total	Lumens	18875.6	0.0	18875.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	530.5	2.8
10°-20°	1368.7	7.3
20°-30°	2258.8	12.0
30°-40°	3727.5	19.7
40°-50°	5897.8	31.2
50°-60°	4465.3	23.7
60°-70°	558.9	3.0
70°-80°	63.2	0.3
80°-90°	4.8	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°	18875.6	100.0
0°-180°	18875.6	100.0

Coefficient of Utilization

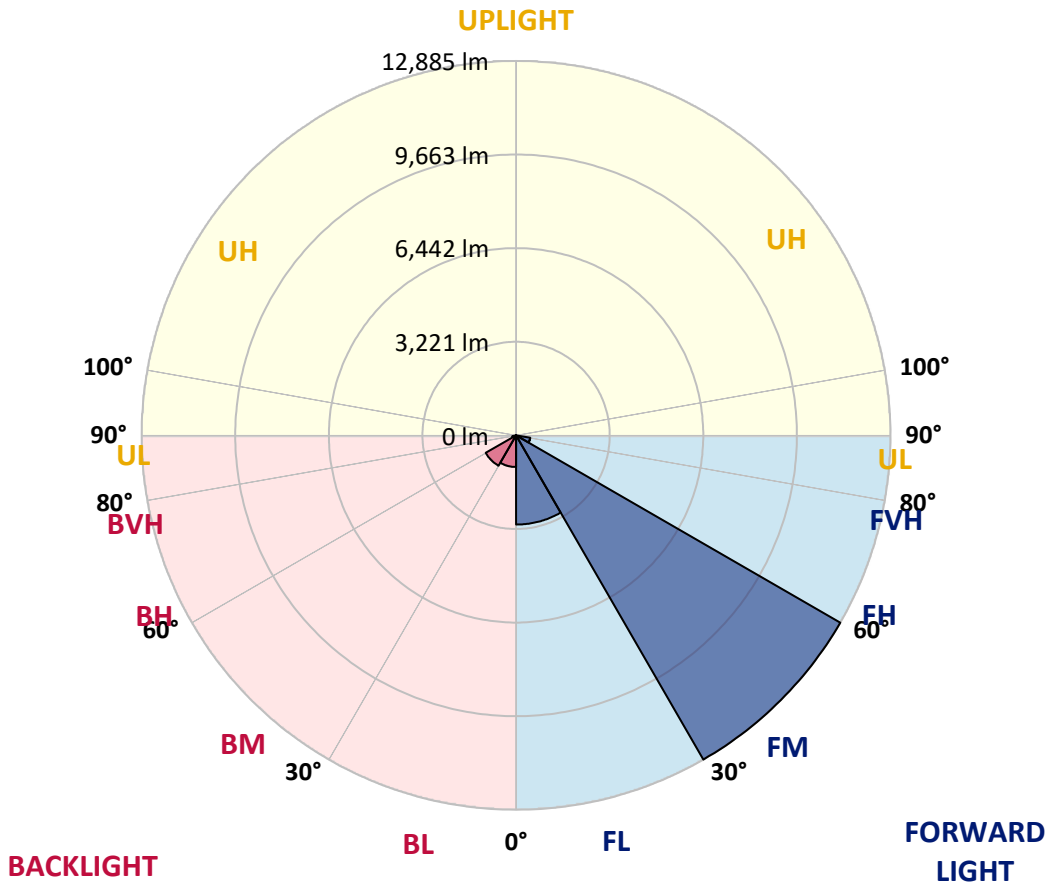


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3069.4	16.3			
FM (30°-60°)	12884.6	68.3			
FH (60°-80°)	494.1	2.6			G0/660
FVH (80°-90°)	2.3	0.0			G0/10
BL (0°-30°)	1088.5	5.8	B3/2500		
BM (30°-60°)	1206.1	6.4	B2/2500		
BH (60°-80°)	128.0	0.7	B1/500		G1/500
BVH (80°-90°)	2.6	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°	5718.6	5718.6	5718.6	5718.6	5718.6	5718.6	5718.6	5718.6	5718.6	5718.6	5718.6
2.5°	6516.2	6568.3	6554.0	6485.7	6412.0	6359.9	6279.1	6253.9	6070.7	5943.1	5808.4
5°	7303.2	7319.3	7301.4	7218.7	7089.4	6965.4	6832.4	6755.2	6448.0	6171.3	5889.2
7.5°	7491.8	7472.0	7506.2	7547.5	7529.5	7475.6	7335.5	7251.1	6884.5	6433.6	6006.0
10°	6902.5	6857.6	6985.2	7198.9	7423.5	7676.8	7640.9	7648.1	7310.3	6764.2	6158.7
12.5°	6121.0	6103.0	6198.2	6446.2	6886.3	7461.3	7599.6	7831.4	7700.2	7121.7	6333.0
15°	5777.8	5786.8	5844.3	6000.6	6316.8	7031.9	7364.2	7782.8	8048.7	7468.4	6525.2
17.5°	5829.9	5862.3	5860.5	5912.6	6104.8	6677.9	7066.0	7630.1	8318.2	7867.3	6746.2
20°	6183.9	6216.2	6167.7	6128.2	6192.9	6588.1	6909.7	7475.6	8499.7	8269.7	6979.8
22.5°	6713.9	6751.6	6636.6	6523.4	6482.1	6735.4	6969.0	7412.7	8638.0	8638.0	7188.2
25°	7355.3	7407.4	7229.5	7028.3	6913.3	7046.2	7222.3	7554.7	8780.0	8968.6	7330.1
27.5°	8072.1	8073.9	7921.2	7694.8	7479.2	7495.4	7601.4	7874.5	8936.3	9324.3	7441.5
30°	8878.8	8884.2	8681.1	8409.9	8138.6	8064.9	8154.7	8361.3	9261.4	9771.7	7596.0
32.5°	9920.8	9945.9	9654.9	9256.0	8903.9	8765.6	8817.7	9035.1	9778.9	10332.2	7827.8
35°	11329.3	11356.3	10926.9	10400.5	9839.9	9631.5	9683.6	9902.8	10528.0	11128.1	8197.9
37.5°	12719.9	12755.8	12321.0	11830.6	11061.6	10716.7	10770.6	10979.0	11652.7	12227.6	8790.7
40°	13681.1	13729.6	13594.8	13264.2	12551.0	12098.3	12162.9	12238.4	12890.6	13542.7	9559.7
42.5°	14187.7	14256.0	14313.5	14482.3	14106.9	13727.8	13618.2	13623.6	14150.0	14883.0	10359.2
45°	14218.2	14284.7	14579.4	15231.5	15517.2	15438.1	15238.7	15104.0	15111.1	15775.9	10858.6
47.5°	13230.1	13354.1	13905.6	15183.0	16257.4	16913.1	16812.5	16492.7	15515.4	15835.2	10804.7
50°	10889.2	11011.3	12013.8	13851.7	15718.4	17502.4	17917.4	17488.0	15251.3	15096.8	10249.6
52.5°	7908.6	7921.2	8571.5	10718.5	13533.7	16415.5	17392.8	17351.5	14848.8	14202.1	9491.4
55°	3756.7	3711.8	4443.0	6049.1	9360.3	13276.8	14924.3	15391.4	14277.5	13555.3	8903.9
57.5°	1094.1	1115.7	1440.9	2360.7	4681.9	8485.3	10220.8	11090.4	11719.2	11144.3	6906.1
60°	490.5	492.3	548.0	718.6	1559.4	3947.1	5283.8	6359.9	7006.7	6492.9	3426.1
62.5°	355.7	357.5	379.1	406.0	530.0	1336.7	1981.6	2641.0	2689.5	1760.7	867.8
65°	296.4	296.4	300.0	300.0	318.0	477.9	601.9	776.1	654.0	485.1	339.6
67.5°	238.9	240.7	244.3	244.3	238.9	238.9	258.7	283.9	303.6	375.5	312.6
70°	186.8	185.0	185.0	186.8	181.5	154.5	167.1	190.4	208.4	292.8	271.3
72.5°	145.5	147.3	145.5	138.3	125.8	91.6	98.8	124.0	132.9	183.3	183.3
75°	109.6	111.4	104.2	79.1	52.1	28.7	37.7	61.1	77.3	89.8	66.5
77.5°	14.4	14.4	10.8	10.8	9.0	10.8	10.8	14.4	21.6	21.6	16.2
80°	1.8	1.8	1.8	3.6	5.4	7.2	7.2	7.2	7.2	9.0	9.0
82.5°	1.8	1.8	1.8	1.8	5.4	5.4	7.2	7.2	7.2	7.2	7.2
85°	0.0	0.0	0.0	1.8	3.6	5.4	5.4	7.2	7.2	7.2	7.2
87.5°	0.0	0.0	0.0	1.8	3.6	5.4	5.4	5.4	7.2	7.2	7.2
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°	5718.6	5718.6	5718.6	5718.6	5718.6	5718.6	5718.6	5718.6	5718.6	5718.6	5718.6
2.5°	5727.5	5623.3	5497.6	5411.3	5289.2	5208.3	5093.3	5016.1	4949.6	4897.5	4926.3
5°	5729.3	5564.0	5307.1	5088.0	4849.0	4629.8	4394.5	4209.4	4042.3	3966.9	4008.2
7.5°	5765.3	5528.1	5134.7	4744.8	4286.7	3833.9	3409.9	3065.0	2894.3	2813.5	2838.6
10°	5835.3	5511.9	4942.4	4295.7	3551.9	2933.8	2522.4	2288.9	2193.6	2143.3	2152.3
12.5°	5900.0	5501.2	4692.7	3704.6	2802.7	2276.3	2062.5	2030.2	2049.9	2051.7	2049.9
15°	5988.0	5481.4	4383.7	3097.3	2242.1	1967.3	1972.7	2019.4	2066.1	2080.5	2076.9
17.5°	6081.5	5450.9	3984.8	2515.2	1902.6	1877.4	1940.3	2003.2	2049.9	2057.1	2058.9
20°	6178.5	5388.0	3530.3	2053.5	1744.5	1809.2	1879.2	1925.9	1960.1	1970.9	1974.5
22.5°	6223.4	5255.0	3005.7	1722.9	1638.5	1724.7	1776.8	1837.9	1848.7	1809.2	1816.4
25°	6200.0	5030.5	2493.7	1500.2	1532.5	1618.7	1696.0	1665.4	1620.5	1591.8	1600.8
27.5°	6126.4	4732.2	1992.4	1336.7	1419.3	1528.9	1537.9	1503.7	1496.6	1473.2	1480.4
30°	6047.3	4389.1	1602.6	1205.5	1304.3	1419.3	1392.4	1404.9	1406.7	1379.8	1388.8
32.5°	5998.8	4029.8	1275.6	1117.5	1230.7	1252.2	1306.1	1331.3	1333.1	1270.2	1281.0
35°	6015.0	3675.8	1079.8	1045.6	1162.4	1157.0	1232.5	1246.8	1142.6	1056.4	1065.4
37.5°	6146.1	3348.8	968.4	989.9	1043.8	1085.1	1142.6	1047.4	1024.1	984.5	989.9
40°	6390.5	3070.4	901.9	955.8	963.0	1029.4	941.4	954.0	955.8	930.6	936.0
42.5°	6676.1	2838.6	862.4	936.0	918.1	928.8	840.8	866.0	892.9	882.1	883.9
45°	6819.9	2612.2	828.2	867.8	873.1	770.7	751.0	777.9	812.1	817.4	819.2
47.5°	6692.3	2396.7	792.3	768.9	804.9	702.5	679.1	688.1	727.6	749.2	752.8
50°	6302.4	2148.7	738.4	680.9	661.1	630.6	609.0	610.8	655.8	693.5	700.7
52.5°	5754.5	1890.0	650.4	576.7	531.8	555.1	560.5	549.8	591.1	628.8	636.0
55°	5222.7	1566.6	515.6	468.9	427.6	477.9	492.3	477.9	490.5	515.6	517.4
57.5°	3677.6	885.7	395.3	388.1	353.9	409.6	433.0	411.4	389.9	406.0	409.6
60°	1705.0	463.5	303.6	303.6	294.6	352.1	391.7	361.1	319.8	327.0	332.4
62.5°	533.6	292.8	222.8	210.2	240.7	300.0	332.4	301.8	253.3	253.3	260.5
65°	301.8	251.5	176.1	161.7	195.8	240.7	260.5	228.2	185.0	181.5	181.5
67.5°	280.3	238.9	156.3	131.2	138.3	154.5	161.7	140.1	127.6	125.8	127.6
70°	231.8	199.4	125.8	89.8	84.4	82.6	86.2	80.8	77.3	79.1	84.4
72.5°	143.7	120.4	79.1	53.9	46.7	44.9	44.9	44.9	43.1	43.1	43.1
75°	52.1	44.9	35.9	26.9	23.4	21.6	21.6	23.4	21.6	19.8	18.0
77.5°	16.2	14.4	14.4	14.4	12.6	10.8	9.0	9.0	7.2	5.4	5.4
80°	9.0	9.0	9.0	9.0	7.2	7.2	5.4	3.6	1.8	1.8	0.0
82.5°	9.0	9.0	9.0	7.2	7.2	7.2	5.4	3.6	1.8	0.0	0.0
85°	7.2	7.2	7.2	7.2	7.2	7.2	5.4	3.6	1.8	0.0	0.0
87.5°	7.2	7.2	7.2	7.2	7.2	7.2	5.4	3.6	1.8	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)