

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: P640992

Luminaire Tested: GWS-SA5F-722-U-AFL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640992
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-SA5F-722-U-AFL-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (80) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23154.9 lumens
Efficiency: N/A
Efficacy: 74.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

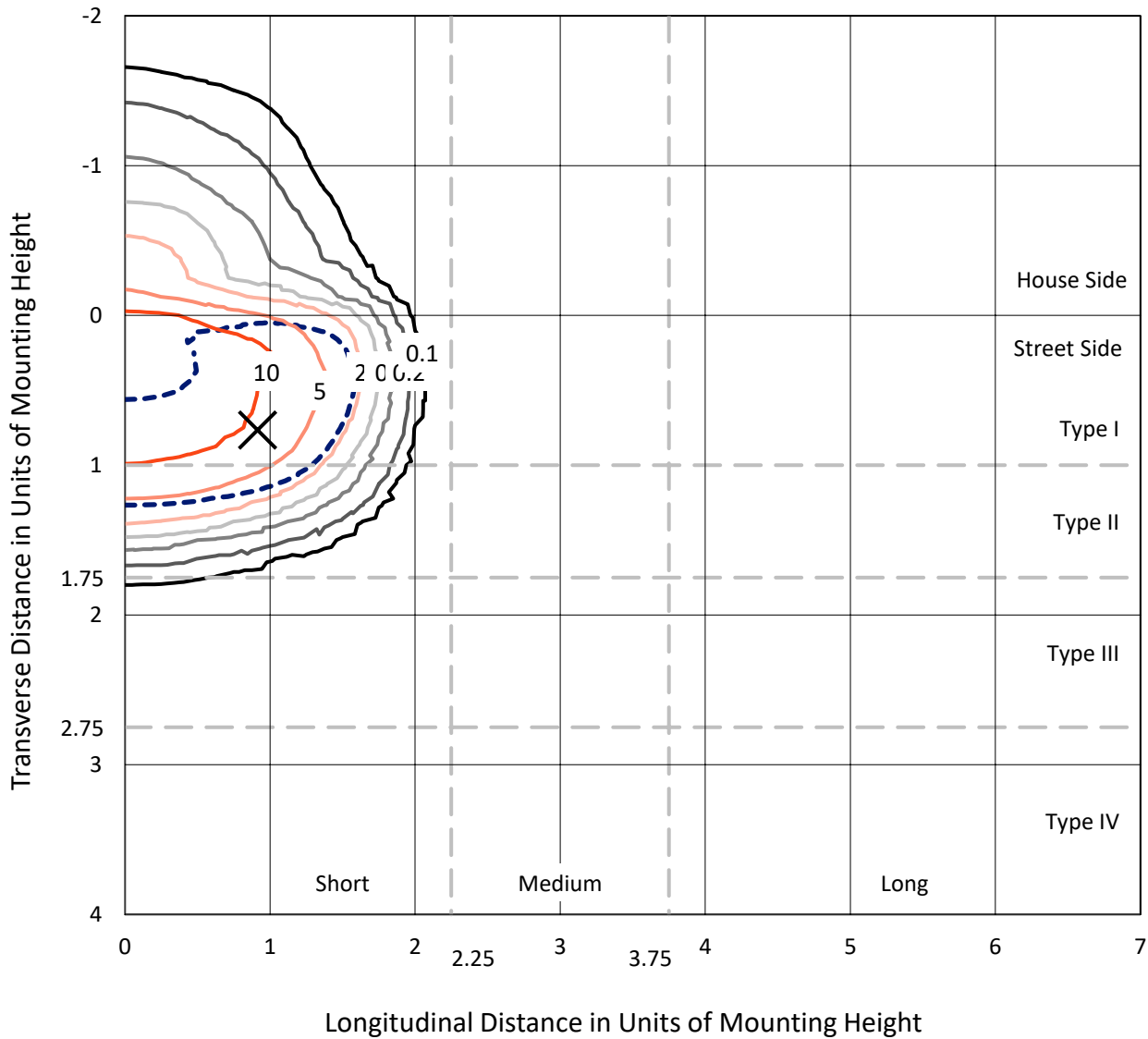
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

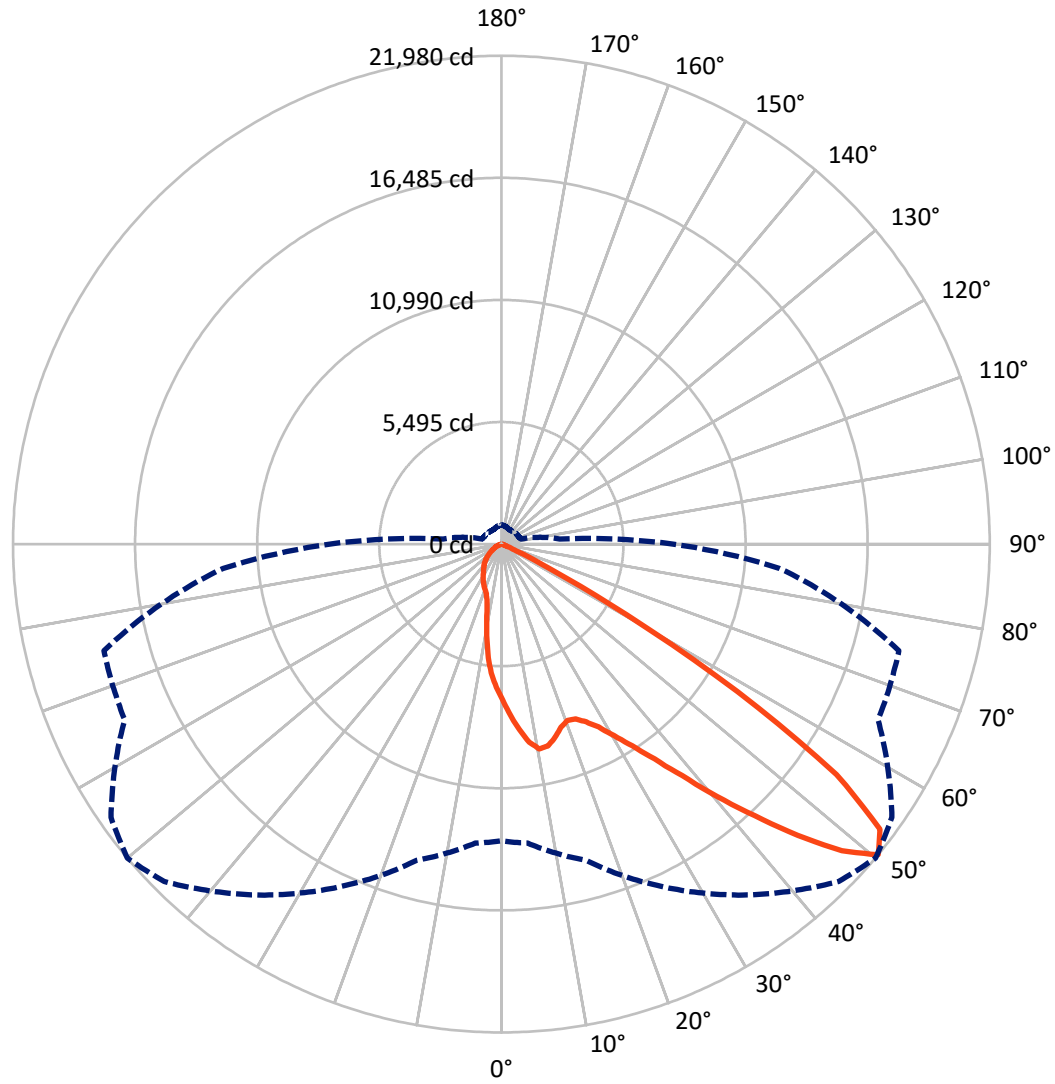
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.4 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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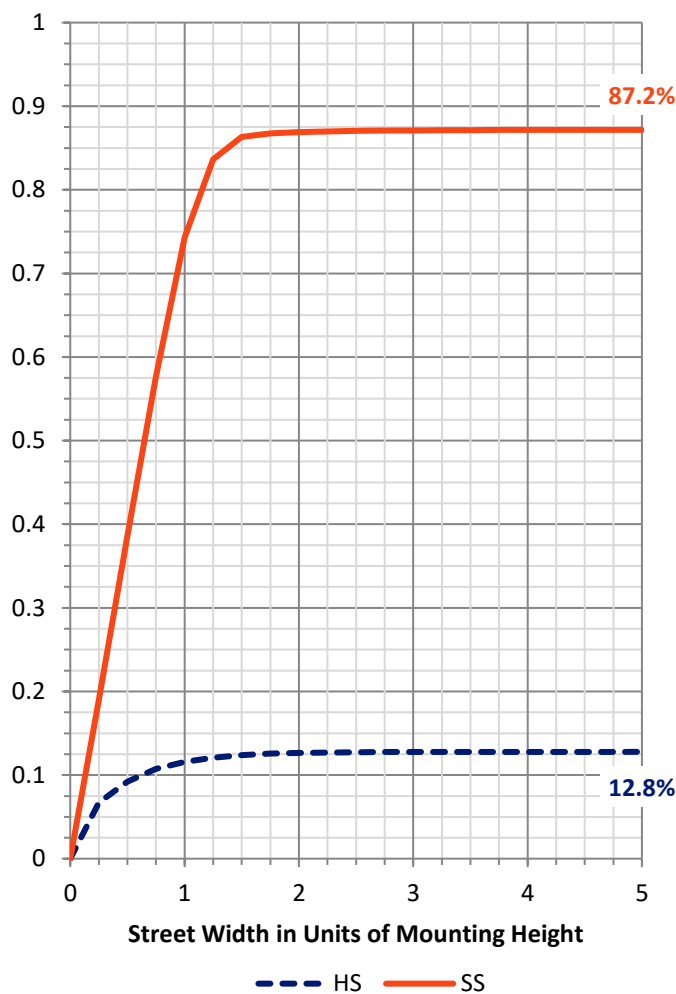
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2975.0	0.0	2975.0
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	20179.8	0.0	20179.8
	% Fixture	87.2	0.0	87.2
Total	Lumens	23154.9	0.0	23154.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	650.7	2.8
10°-20°	1679.0	7.3
20°-30°	2770.9	12.0
30°-40°	4572.6	19.7
40°-50°	7234.9	31.2
50°-60°	5477.7	23.7
60°-70°	685.6	3.0
70°-80°	77.5	0.3
80°-90°	5.9	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°	23154.9	100.0
0°-180°	23154.9	100.0

Coefficient of Utilization



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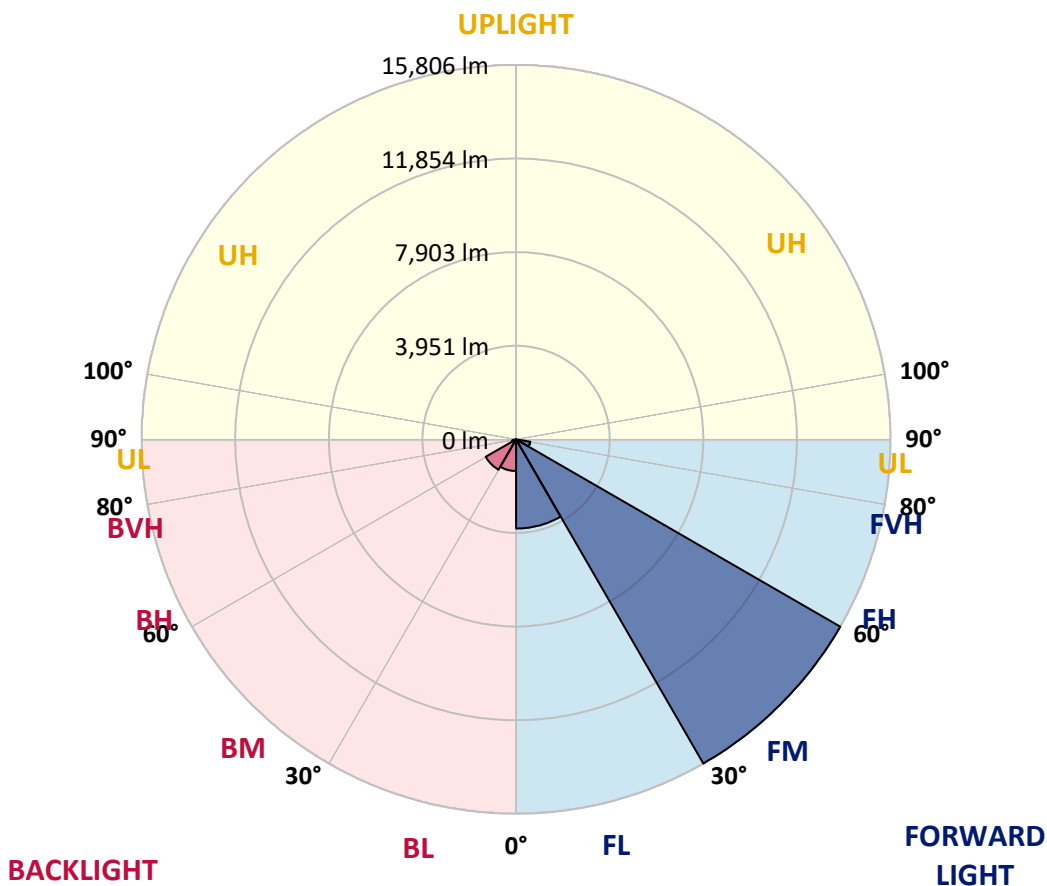
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3765.3	16.3			
FM (30°-60°)	15805.7	68.3			
FH (60°-80°)	606.1	2.6			G0/660
FVH (80°-90°)	2.8	0.0			G0/10
BL (0°-30°)	1335.3	5.8	B3/2500		
BM (30°-60°)	1479.6	6.4	B2/2500		
BH (60°-80°)	157.0	0.7	B1/500		G1/500
BVH (80°-90°)	3.2	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°	7015.0	7015.0	7015.0	7015.0	7015.0	7015.0	7015.0	7015.0	7015.0	7015.0	7015.0
2.5°	7993.5	8057.5	8039.8	7956.1	7865.7	7801.8	7702.6	7671.8	7447.0	7290.5	7125.2
5°	8958.9	8978.7	8956.7	8855.3	8696.6	8544.5	8381.4	8286.7	7909.8	7570.4	7224.4
7.5°	9190.3	9166.0	9207.9	9258.6	9236.5	9170.4	8998.5	8894.9	8445.3	7892.2	7367.6
10°	8467.4	8412.3	8568.8	8831.0	9106.5	9417.3	9373.2	9382.0	8967.7	8297.7	7555.0
12.5°	7508.7	7486.6	7603.5	7907.6	8447.5	9152.8	9322.5	9606.8	9445.9	8736.3	7768.7
15°	7087.7	7098.8	7169.3	7361.0	7748.9	8626.1	9033.8	9547.3	9873.5	9161.6	8004.6
17.5°	7151.7	7191.3	7189.1	7253.0	7488.9	8191.9	8667.9	9360.0	10204.1	9650.9	8275.6
20°	7585.8	7625.5	7566.0	7517.5	7596.8	8081.7	8476.2	9170.4	10426.7	10144.6	8562.2
22.5°	8236.0	8282.3	8141.2	8002.4	7951.7	8262.4	8548.9	9093.3	10596.4	10596.4	8817.8
25°	9022.8	9086.7	8868.5	8621.7	8480.6	8643.7	8859.7	9267.4	10770.5	11001.9	8991.9
27.5°	9902.1	9904.3	9717.0	9439.3	9174.8	9194.7	9324.7	9659.7	10962.2	11438.2	9128.6
30°	10891.7	10898.3	10649.2	10316.5	9983.7	9893.3	10003.5	10257.0	11361.1	11987.0	9318.1
32.5°	12169.9	12200.8	11843.8	11354.5	10922.5	10752.8	10816.7	11083.4	11995.8	12674.6	9602.4
35°	13897.8	13930.9	13404.1	12758.4	12070.8	11815.1	11879.0	12147.9	12914.9	13651.0	10056.4
37.5°	15603.6	15647.7	15114.3	14512.7	13569.4	13146.3	13212.4	13468.0	14294.5	14999.7	10783.7
40°	16782.7	16842.2	16676.9	16271.4	15396.4	14841.1	14920.4	15013.0	15813.0	16613.0	11727.0
42.5°	17404.2	17487.9	17558.5	17765.6	17305.0	16840.0	16705.6	16712.2	17357.9	18257.1	12707.7
45°	17441.7	17523.2	17884.6	18684.7	19035.1	18938.1	18693.5	18528.2	18537.0	19352.4	13320.4
47.5°	16229.5	16381.6	17058.2	18625.2	19943.1	20747.5	20624.1	20231.8	19032.9	19425.2	13254.3
50°	13357.8	13507.7	14737.5	16992.1	19281.9	21470.4	21979.5	21452.8	18708.9	18519.4	12573.3
52.5°	9701.6	9717.0	10514.8	13148.5	16602.0	20137.0	21336.0	21285.3	18215.2	17421.8	11643.2
55°	4608.4	4553.3	5450.2	7420.5	11482.3	16286.8	18307.8	18880.8	17514.4	16628.4	10922.5
57.5°	1342.2	1368.6	1767.5	2895.9	5743.4	10409.0	12538.0	13604.7	14376.0	13670.8	8471.8
60°	601.7	603.9	672.2	881.6	1913.0	4842.0	6481.7	7801.8	8595.2	7964.9	4202.8
62.5°	436.4	438.6	465.0	498.1	650.2	1639.7	2430.9	3239.7	3299.2	2159.8	1064.5
65°	363.6	363.6	368.1	368.1	390.1	586.2	738.3	952.1	802.2	595.1	416.5
67.5°	293.1	295.3	299.7	299.7	293.1	293.1	317.4	348.2	372.5	460.6	383.5
70°	229.2	227.0	227.0	229.2	222.6	189.5	205.0	233.6	255.7	359.2	332.8
72.5°	178.5	180.7	178.5	169.7	154.3	112.4	121.2	152.1	163.1	224.8	224.8
75°	134.4	136.6	127.8	97.0	63.9	35.3	46.3	74.9	94.8	110.2	81.5
77.5°	17.6	17.6	13.2	13.2	11.0	13.2	13.2	17.6	26.4	26.4	19.8
80°	2.2	2.2	2.2	4.4	6.6	8.8	8.8	8.8	8.8	11.0	11.0
82.5°	2.2	2.2	2.2	2.2	6.6	6.6	8.8	8.8	8.8	8.8	8.8
85°	0.0	0.0	0.0	2.2	4.4	6.6	6.6	8.8	8.8	8.8	8.8
87.5°	0.0	0.0	0.0	2.2	4.4	6.6	6.6	6.6	8.8	8.8	8.8
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°	7015.0	7015.0	7015.0	7015.0	7015.0	7015.0	7015.0	7015.0	7015.0	7015.0	7015.0
2.5°	7026.0	6898.2	6743.9	6638.1	6488.3	6389.1	6248.1	6153.3	6071.7	6007.8	6043.1
5°	7028.2	6825.5	6510.3	6241.4	5948.3	5679.5	5390.7	5163.7	4958.8	4866.2	4916.9
7.5°	7072.3	6781.4	6298.7	5820.5	5258.5	4703.1	4183.0	3759.9	3550.5	3451.3	3482.2
10°	7158.3	6761.6	6062.9	5269.5	4357.1	3599.0	3094.3	2807.8	2691.0	2629.3	2640.3
12.5°	7237.6	6748.3	5756.6	4544.4	3438.1	2792.3	2530.1	2490.4	2514.7	2516.9	2514.7
15°	7345.6	6724.1	5377.5	3799.5	2750.5	2413.3	2419.9	2477.2	2534.5	2552.1	2547.7
17.5°	7460.2	6686.6	4888.3	3085.5	2333.9	2303.1	2380.2	2457.3	2514.7	2523.5	2525.7
20°	7579.2	6609.5	4330.7	2519.1	2140.0	2219.3	2305.3	2362.6	2404.5	2417.7	2422.1
22.5°	7634.3	6446.4	3687.1	2113.5	2010.0	2115.7	2179.7	2254.6	2267.8	2219.3	2228.1
25°	7605.7	6170.9	3059.0	1840.3	1879.9	1985.7	2080.5	2043.0	1987.9	1952.7	1963.7
27.5°	7515.3	5805.1	2444.1	1639.7	1741.1	1875.5	1886.5	1844.7	1835.8	1807.2	1816.0
30°	7418.3	5384.1	1965.9	1478.8	1600.0	1741.1	1708.0	1723.4	1725.7	1692.6	1703.6
32.5°	7358.8	4943.3	1564.8	1370.8	1509.7	1536.1	1602.2	1633.1	1635.3	1558.2	1571.4
35°	7378.7	4509.2	1324.5	1282.7	1425.9	1419.3	1511.9	1529.5	1401.7	1295.9	1306.9
37.5°	7539.5	4108.1	1187.9	1214.3	1280.5	1331.2	1401.7	1284.9	1256.2	1207.7	1214.3
40°	7839.3	3766.5	1106.4	1172.5	1181.3	1262.8	1154.8	1170.3	1172.5	1141.6	1148.2
42.5°	8189.7	3482.2	1057.9	1148.2	1126.2	1139.4	1031.4	1062.3	1095.3	1082.1	1084.3
45°	8366.0	3204.5	1016.0	1064.5	1071.1	945.5	921.2	954.3	996.2	1002.8	1005.0
47.5°	8209.5	2940.0	971.9	943.3	987.3	861.7	833.1	844.1	892.6	919.0	923.4
50°	7731.3	2635.9	905.8	835.3	811.0	773.6	747.1	749.3	804.4	850.7	859.5
52.5°	7059.1	2318.5	797.8	707.5	652.4	681.0	687.6	674.4	725.1	771.4	780.2
55°	6406.7	1921.8	632.5	575.2	524.5	586.2	603.9	586.2	601.7	632.5	634.7
57.5°	4511.4	1086.5	484.9	476.0	434.2	502.5	531.1	504.7	478.2	498.1	502.5
60°	2091.5	568.6	372.5	372.5	361.4	432.0	480.5	443.0	392.3	401.1	407.7
62.5°	654.6	359.2	273.3	257.9	295.3	368.1	407.7	370.3	310.7	310.7	319.6
65°	370.3	308.5	216.0	198.4	240.2	295.3	319.6	279.9	227.0	222.6	222.6
67.5°	343.8	293.1	191.7	160.9	169.7	189.5	198.4	171.9	156.5	154.3	156.5
70°	284.3	244.6	154.3	110.2	103.6	101.4	105.8	99.2	94.8	97.0	103.6
72.5°	176.3	147.7	97.0	66.1	57.3	55.1	55.1	55.1	52.9	52.9	52.9
75°	63.9	55.1	44.1	33.1	28.7	26.4	26.4	28.7	26.4	24.2	22.0
77.5°	19.8	17.6	17.6	17.6	15.4	13.2	11.0	11.0	8.8	6.6	6.6
80°	11.0	11.0	11.0	11.0	8.8	8.8	6.6	4.4	2.2	2.2	0.0
82.5°	11.0	11.0	11.0	8.8	8.8	8.8	6.6	4.4	2.2	0.0	0.0
85°	8.8	8.8	8.8	8.8	8.8	8.8	6.6	4.4	2.2	0.0	0.0
87.5°	8.8	8.8	8.8	8.8	8.8	8.8	6.6	4.4	2.2	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)