

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: P643742

Luminaire Tested: GWS-SA6F-750-U-AFL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643742
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-SAGF-750-U-AFL-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (96) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38343 lumens
Efficiency: N/A
Efficacy: 102.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

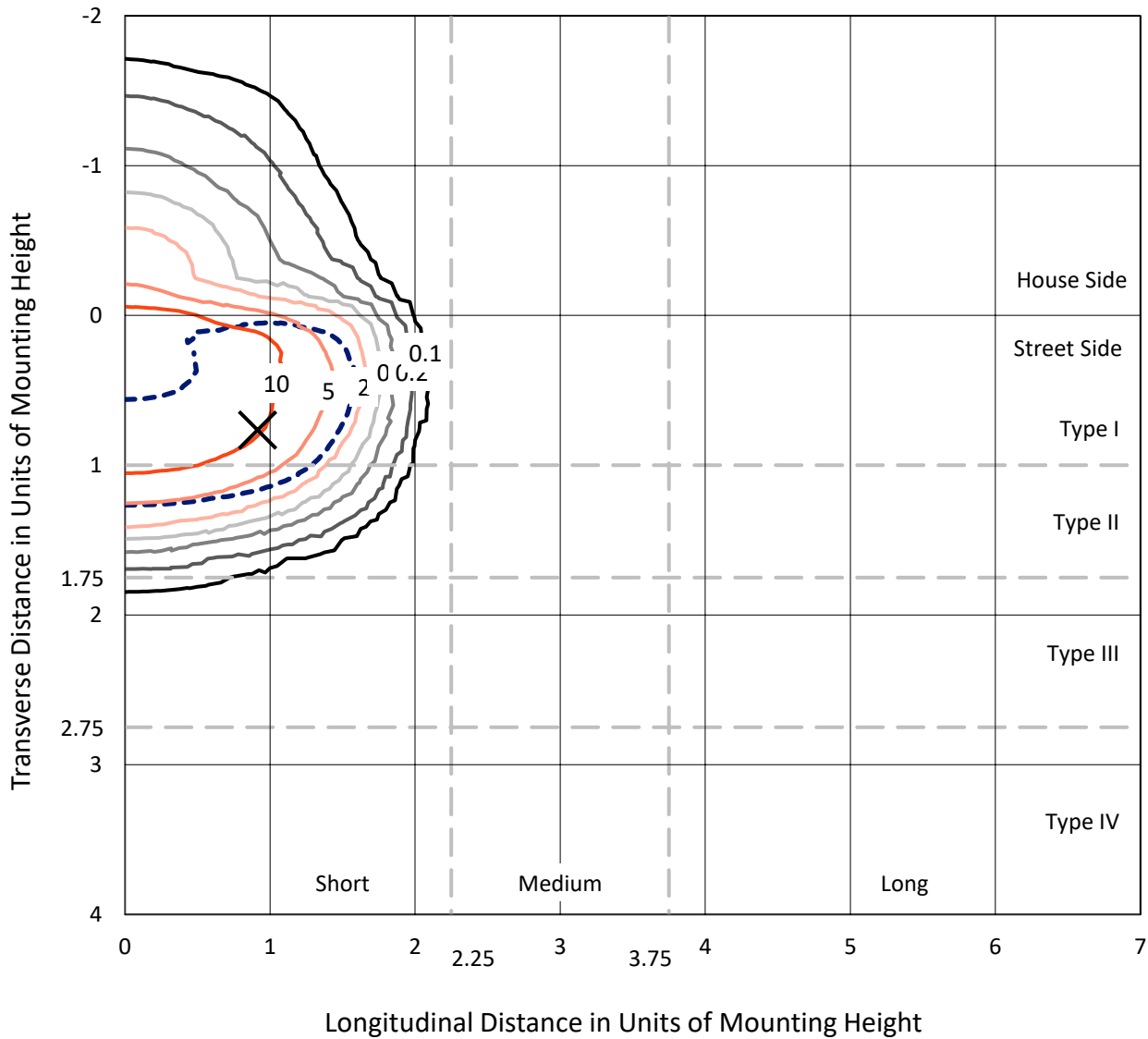
Input Watts (W): 372.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

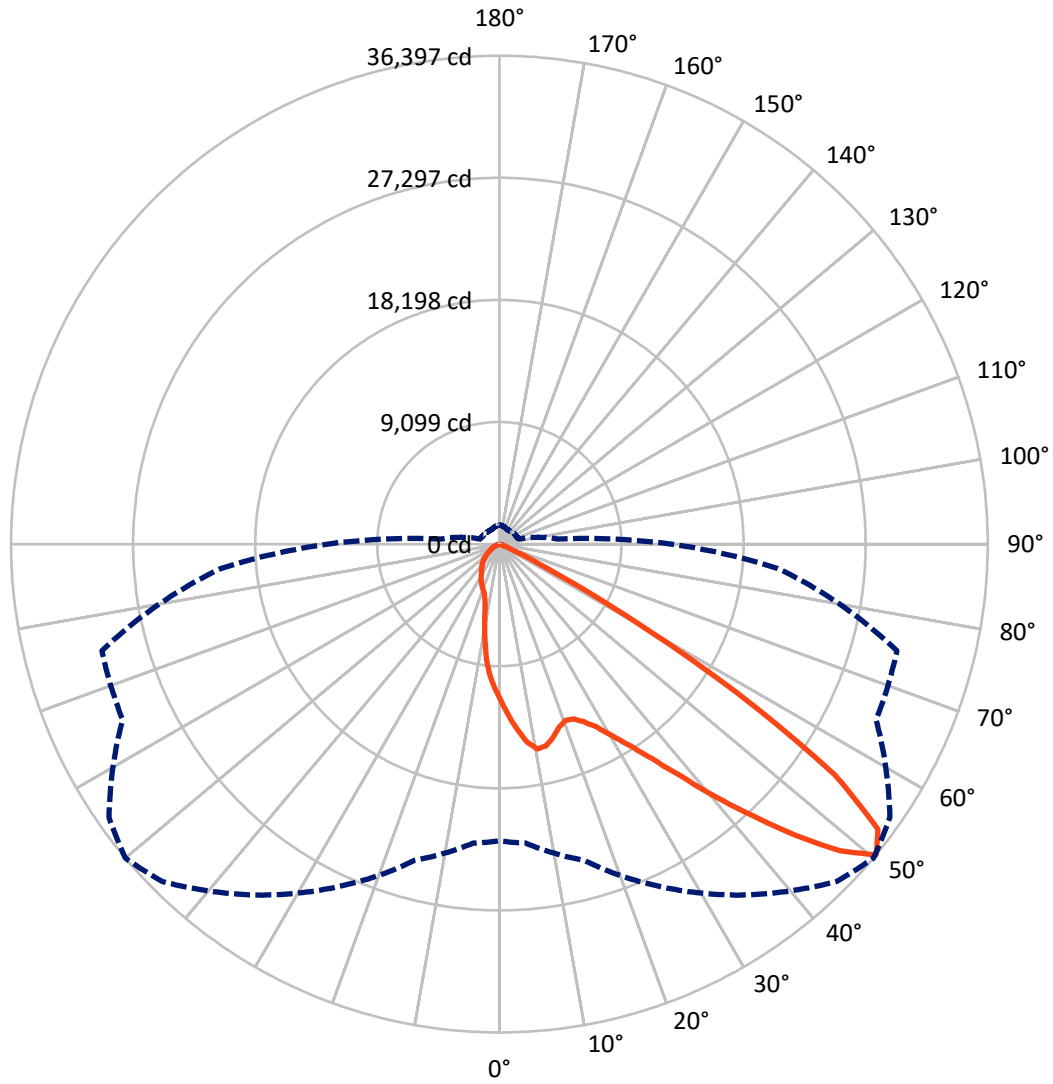
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 16.5 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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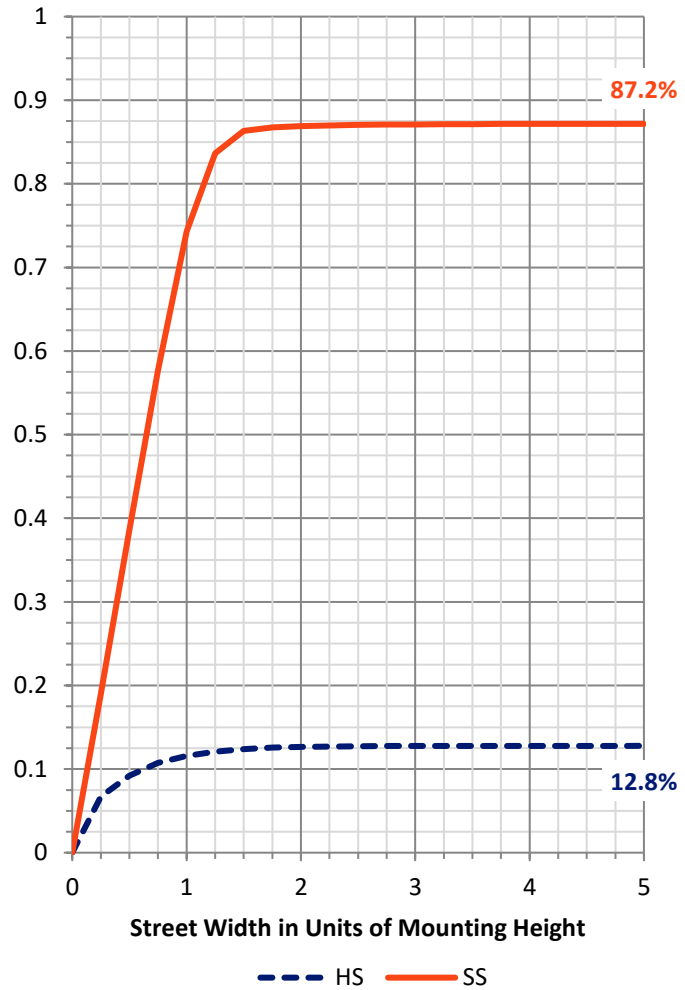
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4926.5	0.0	4926.5
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	33416.5	0.0	33416.5
	% Fixture	87.2	0.0	87.2
Total	Lumens	38343.0	0.0	38343.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1077.6	2.8
10°-20°	2780.3	7.3
20°-30°	4588.5	12.0
30°-40°	7571.9	19.7
40°-50°	11980.6	31.2
50°-60°	9070.7	23.7
60°-70°	1135.2	3.0
70°-80°	128.4	0.3
80°-90°	9.8	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°	38343.0	100.0
0°-180°	38343.0	100.0

Coefficient of Utilization



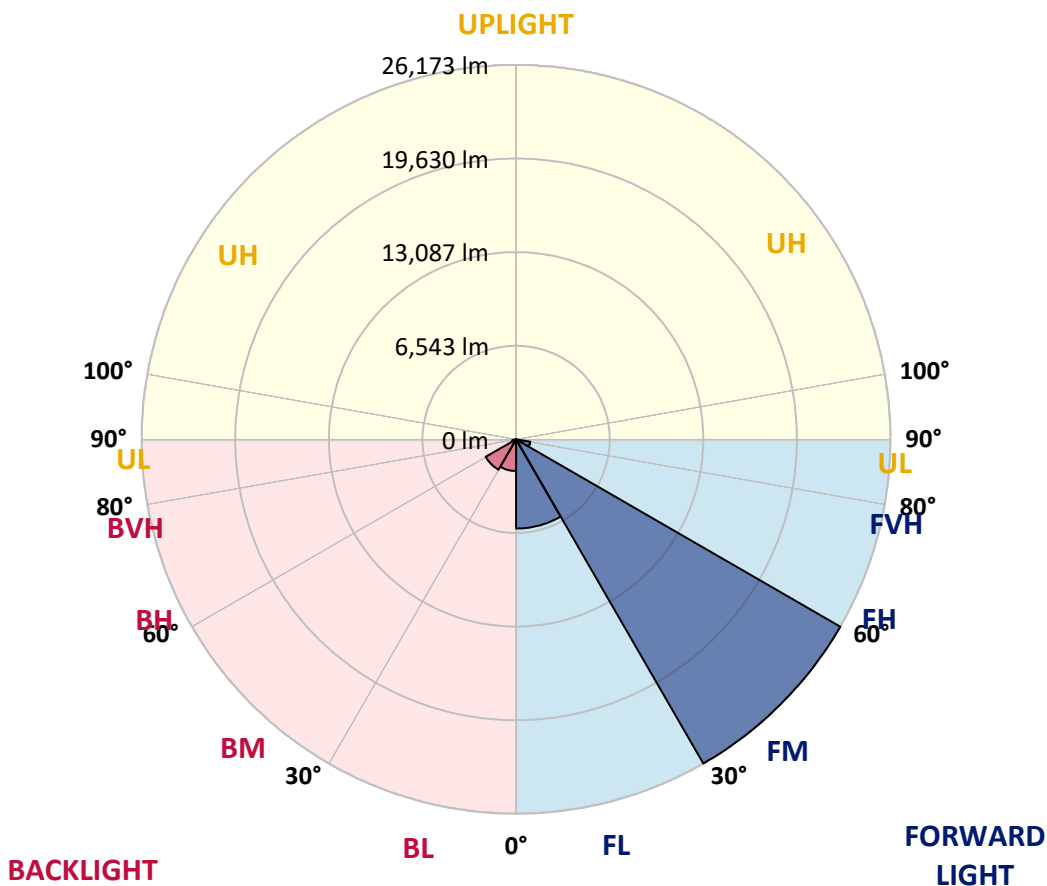
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6235.1	16.3			
FM (30°-60°)	26173.1	68.3			
FH (60°-80°)	1003.7	2.6			G1/1800
FVH (80°-90°)	4.6	0.0			G0/10
BL (0°-30°)	2211.2	5.8	B3/2500		
BM (30°-60°)	2450.0	6.4	B2/2500		
BH (60°-80°)	260.0	0.7	B1/500		G1/500
BVH (80°-90°)	5.2	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°	11616.4	11616.4	11616.4	11616.4	11616.4	11616.4	11616.4	11616.4	11616.4	11616.4	11616.4
2.5°	13236.8	13342.6	13313.4	13174.7	13025.1	12919.3	12755.1	12704.0	12331.7	12072.6	11798.9
5°	14835.3	14868.1	14831.6	14663.7	14401.0	14149.2	13879.1	13722.2	13098.1	12536.1	11963.1
7.5°	15218.5	15178.3	15247.7	15331.6	15295.1	15185.6	14901.0	14729.4	13984.9	13068.9	12200.3
10°	14021.4	13930.2	14189.3	14623.6	15079.8	15594.4	15521.4	15536.0	14849.9	13740.4	12510.5
12.5°	12433.9	12397.4	12590.8	13094.5	13988.6	15156.4	15437.4	15908.2	15641.8	14466.7	12864.5
15°	11736.8	11755.1	11871.9	12189.4	12831.7	14284.2	14959.4	15809.7	16349.8	15171.0	13255.0
17.5°	11842.7	11908.4	11904.7	12010.6	12401.1	13565.2	14353.5	15499.5	16897.3	15981.2	13703.9
20°	12561.6	12627.3	12528.8	12448.5	12579.9	13382.8	14036.0	15185.6	17265.9	16798.7	14178.4
22.5°	13638.2	13714.9	13481.3	13251.4	13167.4	13682.0	14156.5	15057.9	17546.9	17546.9	14601.7
25°	14941.1	15046.9	14685.6	14276.9	14043.3	14313.4	14671.0	15346.2	17835.2	18218.4	14890.0
27.5°	16397.3	16400.9	16090.7	15630.9	15192.9	15225.8	15441.1	15995.8	18152.7	18941.0	15116.3
30°	18035.9	18046.8	17634.5	17083.4	16532.3	16382.7	16565.1	16984.8	18813.2	19849.7	15430.1
32.5°	20152.6	20203.7	19612.5	18802.3	18087.0	17806.0	17911.8	18353.4	19864.3	20988.4	15900.9
35°	23013.8	23068.6	22196.3	21127.0	19988.4	19565.0	19670.9	20116.1	21386.2	22605.1	16652.7
37.5°	25838.6	25911.6	25028.4	24032.1	22470.1	21769.4	21878.8	22302.2	23670.8	24838.6	17857.1
40°	27791.1	27889.6	27615.9	26944.4	25495.5	24575.8	24707.2	24860.5	26185.3	27510.0	19419.1
42.5°	28820.2	28958.9	29075.7	29418.7	28656.0	27885.9	27663.3	27674.3	28743.6	30232.6	21043.1
45°	28882.3	29017.3	29615.8	30940.6	31520.9	31360.3	30955.2	30681.5	30696.1	32046.4	22057.7
47.5°	26875.0	27126.8	28247.2	30842.0	33024.5	34356.5	34152.2	33502.5	31517.2	32166.8	21948.2
50°	22119.7	22367.9	24404.3	28137.8	31929.6	35553.6	36396.6	35524.4	30980.7	30666.9	20820.5
52.5°	16065.2	16090.7	17411.8	21773.0	27491.8	33345.6	35330.9	35247.0	30163.2	28849.4	19280.4
55°	7631.1	7539.9	9025.2	12287.9	19014.0	26969.9	30316.5	31265.4	29002.7	27535.6	18087.0
57.5°	2222.6	2266.3	2926.9	4795.5	9510.6	17236.7	20762.1	22528.5	23805.8	22637.9	14028.7
60°	996.3	1000.0	1113.1	1459.8	3167.8	8018.0	10733.2	12919.3	14233.1	13189.3	6959.6
62.5°	722.6	726.3	770.0	824.8	1076.6	2715.2	4025.4	5364.8	5463.3	3576.5	1762.7
65°	602.2	602.2	609.5	609.5	646.0	970.8	1222.6	1576.6	1328.4	985.4	689.8
67.5°	485.4	489.0	496.3	496.3	485.4	485.4	525.5	576.6	616.8	762.7	635.0
70°	379.5	375.9	375.9	379.5	368.6	313.9	339.4	386.8	423.3	594.9	551.1
72.5°	295.6	299.3	295.6	281.0	255.5	186.1	200.7	251.8	270.1	372.3	372.3
75°	222.6	226.3	211.7	160.6	105.8	58.4	76.6	124.1	156.9	182.5	135.0
77.5°	29.2	29.2	21.9	21.9	18.2	21.9	21.9	29.2	43.8	43.8	32.8
80°	3.6	3.6	3.6	7.3	10.9	14.6	14.6	14.6	14.6	18.2	18.2
82.5°	3.6	3.6	3.6	3.6	10.9	10.9	14.6	14.6	14.6	14.6	14.6
85°	0.0	0.0	0.0	3.6	7.3	10.9	10.9	14.6	14.6	14.6	14.6
87.5°	0.0	0.0	0.0	3.6	7.3	10.9	10.9	10.9	14.6	14.6	14.6
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°	11616.4	11616.4	11616.4	11616.4	11616.4	11616.4	11616.4	11616.4	11616.4	11616.4	11616.4
2.5°	11634.7	11423.0	11167.5	10992.3	10744.2	10579.9	10346.4	10189.4	10054.4	9948.6	10007.0
5°	11638.3	11302.5	10780.7	10335.4	9850.0	9404.8	8926.7	8550.8	8211.4	8058.1	8142.1
7.5°	11711.3	11229.6	10430.3	9638.4	8707.7	7788.1	6926.8	6226.1	5879.4	5715.1	5766.2
10°	11853.6	11196.7	10039.8	8726.0	7215.1	5959.7	5123.9	4649.5	4456.1	4353.9	4372.1
12.5°	11985.0	11174.8	9532.5	7525.3	5693.2	4623.9	4189.6	4124.0	4164.1	4167.7	4164.1
15°	12163.8	11134.7	8904.8	6291.8	4554.6	3996.2	4007.2	4102.1	4196.9	4226.1	4218.8
17.5°	12353.6	11072.6	8094.6	5109.3	3864.8	3813.7	3941.5	4069.2	4164.1	4178.7	4182.3
20°	12550.7	10944.9	7171.3	4171.4	3543.7	3675.1	3817.4	3912.3	3981.6	4003.5	4010.8
22.5°	12641.9	10674.8	6105.6	3499.9	3328.4	3503.5	3609.4	3733.5	3755.4	3675.1	3689.7
25°	12594.5	10218.6	5065.5	3047.3	3113.0	3288.2	3445.1	3383.1	3291.9	3233.5	3251.7
27.5°	12444.8	9612.8	4047.3	2715.2	2883.1	3105.7	3124.0	3054.6	3040.0	2992.6	3007.2
30°	12284.3	8915.8	3255.4	2448.8	2649.5	2883.1	2828.4	2853.9	2857.6	2802.8	2821.1
32.5°	12185.7	8185.9	2591.2	2270.0	2499.9	2543.7	2653.2	2704.3	2707.9	2580.2	2602.1
35°	12218.6	7466.9	2193.4	2124.0	2361.2	2350.3	2503.6	2532.8	2321.1	2145.9	2164.2
37.5°	12485.0	6802.7	1967.1	2010.9	2120.4	2204.3	2321.1	2127.7	2080.2	1999.9	2010.9
40°	12981.3	6237.0	1832.1	1941.5	1956.1	2091.2	1912.3	1937.9	1941.5	1890.4	1901.4
42.5°	13561.6	5766.2	1751.8	1901.4	1864.9	1886.8	1708.0	1759.1	1813.8	1791.9	1795.6
45°	13853.6	5306.4	1682.4	1762.7	1773.7	1565.6	1525.5	1580.2	1649.6	1660.5	1664.2
47.5°	13594.4	4868.5	1609.4	1562.0	1635.0	1427.0	1379.5	1397.8	1478.1	1521.8	1529.1
50°	12802.5	4364.8	1500.0	1383.2	1343.0	1281.0	1237.2	1240.8	1332.1	1408.7	1423.3
52.5°	11689.4	3839.3	1321.1	1171.5	1080.3	1127.7	1138.6	1116.8	1200.7	1277.3	1291.9
55°	10609.1	3182.4	1047.4	952.5	868.6	970.8	1000.0	970.8	996.3	1047.4	1051.1
57.5°	7470.6	1799.2	802.9	788.3	719.0	832.1	879.5	835.7	791.9	824.8	832.1
60°	3463.4	941.6	616.8	616.8	598.5	715.3	795.6	733.6	649.6	664.2	675.2
62.5°	1083.9	594.9	452.5	427.0	489.0	609.5	675.2	613.1	514.6	514.6	529.2
65°	613.1	510.9	357.7	328.5	397.8	489.0	529.2	463.5	375.9	368.6	368.6
67.5°	569.3	485.4	317.5	266.4	281.0	313.9	328.5	284.7	259.1	255.5	259.1
70°	470.8	405.1	255.5	182.5	171.5	167.9	175.2	164.2	156.9	160.6	171.5
72.5°	292.0	244.5	160.6	109.5	94.9	91.2	91.2	91.2	87.6	87.6	87.6
75°	105.8	91.2	73.0	54.7	47.4	43.8	43.8	47.4	43.8	40.1	36.5
77.5°	32.8	29.2	29.2	29.2	25.5	21.9	18.2	18.2	14.6	10.9	10.9
80°	18.2	18.2	18.2	18.2	14.6	14.6	10.9	7.3	3.6	3.6	0.0
82.5°	18.2	18.2	18.2	14.6	14.6	14.6	10.9	7.3	3.6	0.0	0.0
85°	14.6	14.6	14.6	14.6	14.6	14.6	10.9	7.3	3.6	0.0	0.0
87.5°	14.6	14.6	14.6	14.6	14.6	14.6	10.9	7.3	3.6	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)