

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: P638297

Luminaire Tested: GWS-SA4E-750-U-AFL-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P638297  
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-SA4E-750-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) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

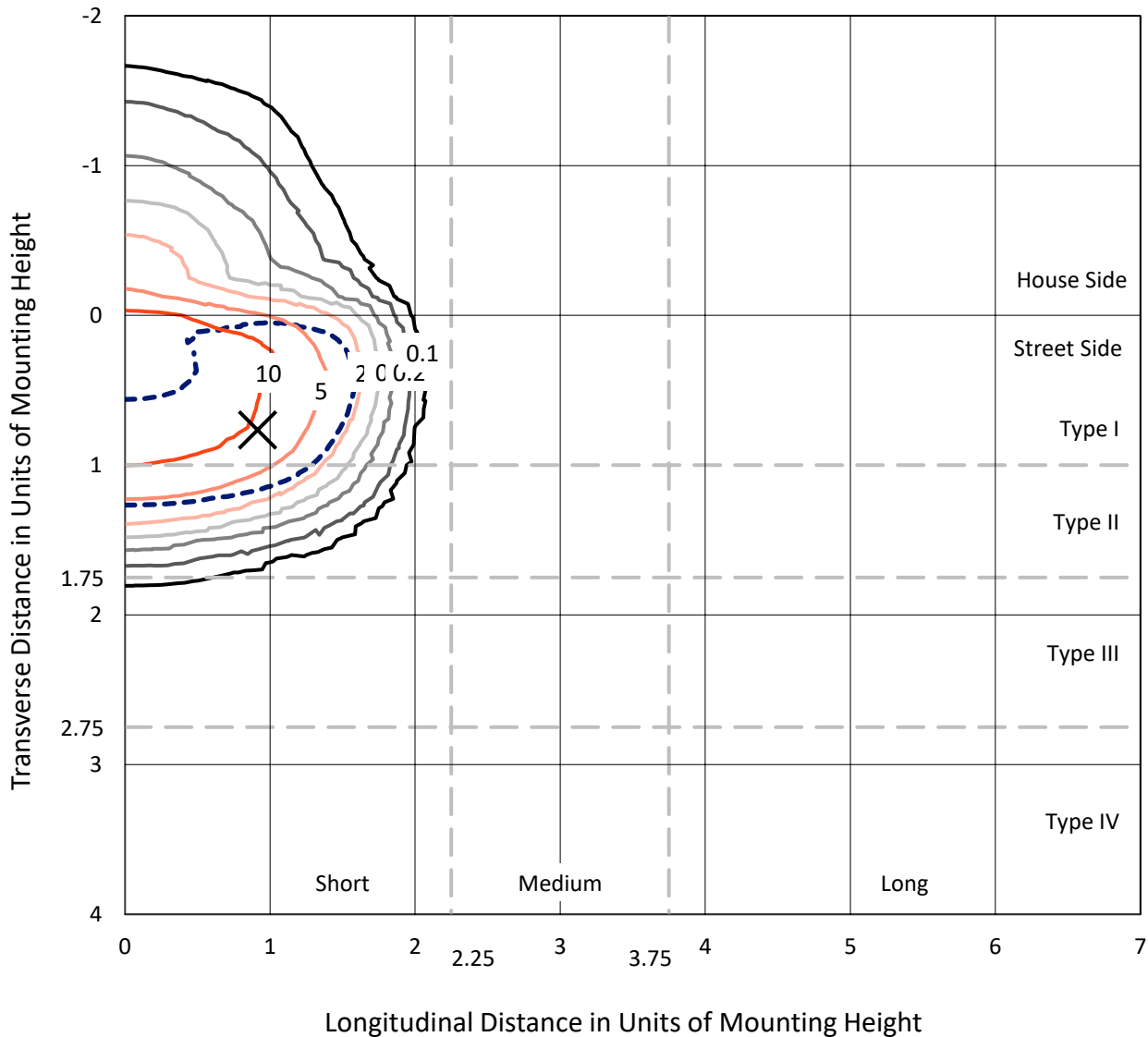
Lumens per Lamp: N/A  
Luminaire Lumens: 23576.4 lumens  
Efficiency: N/A  
Efficacy: 116.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G1  
  
Input Watts (W): 202.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

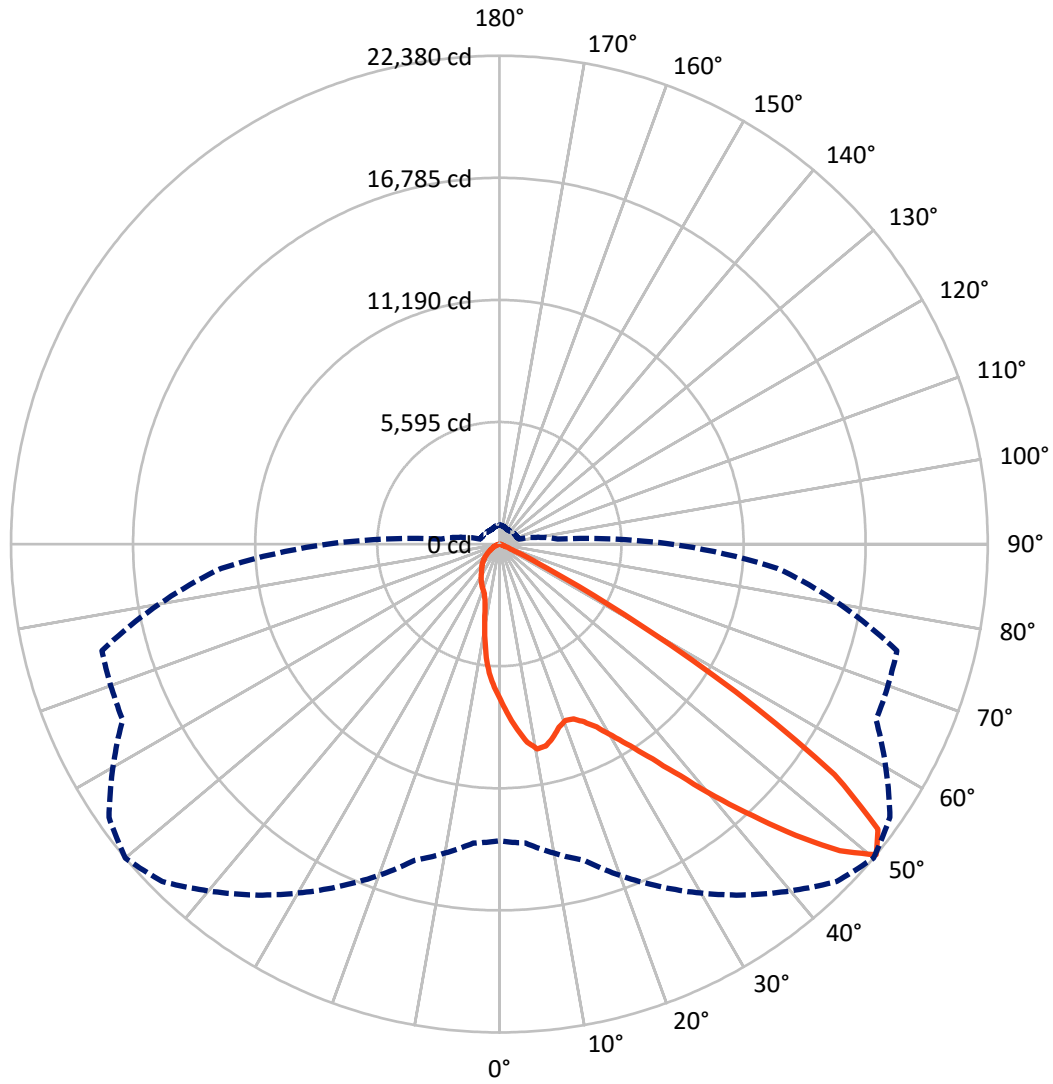
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.6 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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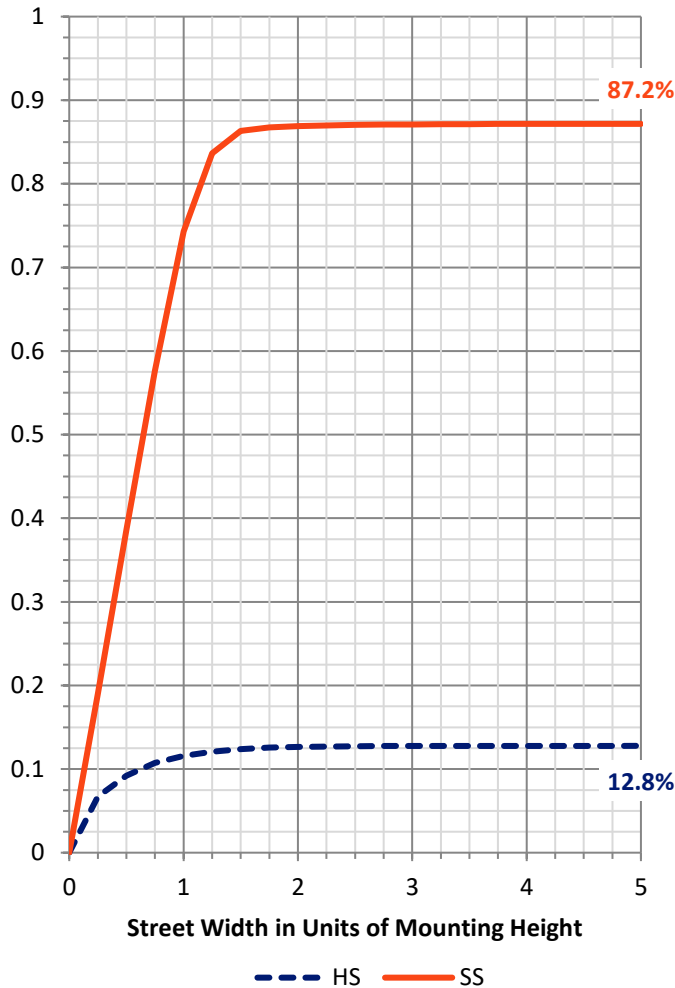
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3029.2	0.0	3029.2
	% Fixture	12.8	0.0	12.8
<b>Street Side</b>	Lumens	20547.2	0.0	20547.2
	% Fixture	87.2	0.0	87.2
<b>Total</b>	Lumens	23576.4	0.0	23576.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	662.6	2.8
10°-20°	1709.5	7.3
20°-30°	2821.4	12.0
30°-40°	4655.9	19.7
40°-50°	7366.6	31.2
50°-60°	5577.4	23.7
60°-70°	698.0	3.0
70°-80°	79.0	0.3
80°-90°	6.0	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°	23576.4	100.0
0°-180°	23576.4	100.0

**Coefficient of Utilization**



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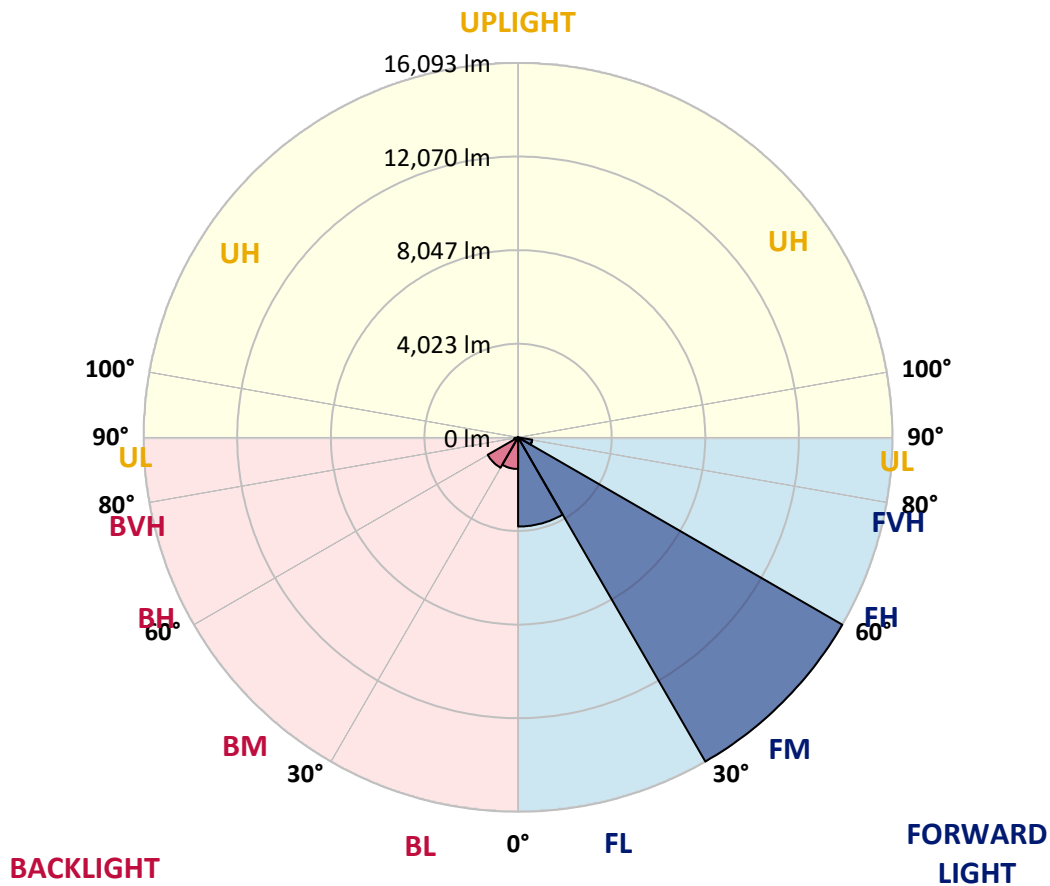
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3833.9	16.3			
FM (30°-60°)	16093.4	68.3			
FH (60°-80°)	617.2	2.6			G0/660
FVH (80°-90°)	2.8	0.0			G0/10
BL (0°-30°)	1359.6	5.8	B3/2500		
BM (30°-60°)	1506.5	6.4	B2/2500		
BH (60°-80°)	159.9	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°	7142.7	7142.7	7142.7	7142.7	7142.7	7142.7	7142.7	7142.7	7142.7	7142.7	7142.7
2.5°	8139.1	8204.1	8186.2	8100.9	8008.9	7943.8	7842.8	7811.4	7582.5	7423.2	7254.9
5°	9121.9	9142.1	9119.7	9016.5	8854.9	8700.1	8534.0	8437.5	8053.8	7708.2	7355.9
7.5°	9357.6	9332.9	9375.5	9427.1	9404.7	9337.4	9162.3	9056.9	8599.1	8035.8	7501.8
10°	8621.5	8565.4	8724.7	8991.8	9272.3	9588.7	9543.8	9552.8	9130.9	8448.7	7692.5
12.5°	7645.4	7622.9	7741.9	8051.5	8601.3	9319.4	9492.2	9781.7	9617.9	8895.3	7910.2
15°	7216.8	7228.0	7299.8	7495.0	7890.0	8783.1	9198.2	9721.1	10053.2	9328.4	8150.3
17.5°	7281.8	7322.2	7320.0	7385.1	7625.2	8341.0	8825.7	9530.3	10389.8	9826.6	8426.3
20°	7723.9	7764.3	7703.7	7654.3	7735.1	8228.8	8630.5	9337.4	10616.5	10329.2	8718.0
22.5°	8385.9	8433.0	8289.4	8148.0	8096.4	8412.8	8704.5	9258.8	10789.2	10789.2	8978.3
25°	9187.0	9252.1	9029.9	8778.6	8635.0	8801.0	9021.0	9436.1	10966.5	11202.1	9155.6
27.5°	10082.4	10084.6	9893.9	9611.1	9341.9	9362.0	9494.4	9835.5	11161.7	11646.5	9294.7
30°	11089.9	11096.7	10843.1	10504.3	10165.4	10073.4	10185.6	10443.7	11567.9	12205.2	9487.7
32.5°	12391.5	12422.9	12059.4	11561.2	11121.4	10948.6	11013.6	11285.2	12214.2	12905.4	9777.2
35°	14150.8	14184.4	13648.1	12990.6	12290.5	12030.2	12095.3	12369.0	13150.0	13899.5	10239.5
37.5°	15887.7	15932.5	15389.5	14776.9	13816.4	13385.6	13452.9	13713.2	14554.7	15272.8	10980.0
40°	17088.2	17148.8	16980.5	16567.6	15676.7	15111.2	15192.0	15286.3	16100.8	16915.4	11940.4
42.5°	17721.0	17806.3	17878.1	18089.0	17620.0	17146.5	17009.7	17016.4	17673.9	18589.5	12939.0
45°	17759.2	17842.2	18210.2	19024.8	19381.6	19282.9	19033.8	18865.5	18874.4	19704.7	13562.8
47.5°	16525.0	16679.8	17368.7	18964.2	20306.1	21125.2	20999.5	20600.1	19379.3	19778.8	13495.5
50°	13601.0	13753.6	15005.8	17301.4	19632.9	21861.2	22379.6	21843.3	19049.5	18856.5	12802.1
52.5°	9878.2	9893.9	10706.2	13387.8	16904.2	20503.6	21724.3	21672.7	18546.8	17739.0	11855.2
55°	4692.2	4636.1	5549.5	7555.6	11691.3	16583.3	18641.1	19224.5	17833.2	16931.1	11121.4
57.5°	1366.6	1393.5	1799.7	2948.6	5847.9	10598.5	12766.2	13852.3	14637.7	13919.6	8626.0
60°	612.6	614.9	684.4	897.6	1947.8	4930.1	6599.7	7943.8	8751.7	8109.9	4279.3
62.5°	444.3	446.6	473.5	507.1	662.0	1669.6	2475.2	3298.7	3359.3	2199.1	1083.9
65°	370.3	370.3	374.8	374.8	397.2	596.9	751.7	969.4	816.8	605.9	424.1
67.5°	298.5	300.7	305.2	305.2	298.5	298.5	323.1	354.6	379.2	469.0	390.5
70°	233.4	231.1	231.1	233.4	226.6	193.0	208.7	237.9	260.3	365.8	338.8
72.5°	181.8	184.0	181.8	172.8	157.1	114.4	123.4	154.8	166.1	228.9	228.9
75°	136.9	139.1	130.2	98.7	65.1	35.9	47.1	76.3	96.5	112.2	83.0
77.5°	18.0	18.0	13.5	13.5	11.2	13.5	13.5	18.0	26.9	26.9	20.2
80°	2.2	2.2	2.2	4.5	6.7	9.0	9.0	9.0	9.0	11.2	11.2
82.5°	2.2	2.2	2.2	2.2	6.7	6.7	9.0	9.0	9.0	9.0	9.0
85°	0.0	0.0	0.0	2.2	4.5	6.7	6.7	9.0	9.0	9.0	9.0
87.5°	0.0	0.0	0.0	2.2	4.5	6.7	6.7	6.7	9.0	9.0	9.0
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°	7142.7	7142.7	7142.7	7142.7	7142.7	7142.7	7142.7	7142.7	7142.7	7142.7	7142.7
2.5°	7153.9	7023.8	6866.7	6759.0	6606.4	6505.4	6361.8	6265.3	6182.3	6117.2	6153.1
5°	7156.2	6949.7	6628.8	6355.1	6056.6	5782.8	5488.9	5257.7	5049.0	4954.8	5006.4
7.5°	7201.1	6904.8	6413.4	5926.5	5354.2	4788.7	4259.1	3828.3	3615.1	3514.1	3545.5
10°	7288.6	6884.6	6173.3	5365.4	4436.4	3664.5	3150.6	2858.9	2739.9	2677.1	2688.3
12.5°	7369.4	6871.2	5861.4	4627.2	3500.7	2843.2	2576.1	2535.7	2560.4	2562.7	2560.4
15°	7479.3	6846.5	5475.4	3868.7	2800.5	2457.2	2463.9	2522.3	2580.6	2598.6	2594.1
17.5°	7596.0	6808.4	4977.2	3141.6	2376.4	2345.0	2423.5	2502.1	2560.4	2569.4	2571.6
20°	7717.2	6729.8	4409.5	2564.9	2178.9	2259.7	2347.2	2405.6	2448.2	2461.7	2466.2
22.5°	7773.3	6563.8	3754.2	2152.0	2046.5	2154.3	2219.3	2295.6	2309.1	2259.7	2268.7
25°	7744.1	6283.3	3114.7	1873.8	1914.1	2021.9	2118.4	2080.2	2024.1	1988.2	1999.4
27.5°	7652.1	5910.7	2488.6	1669.6	1772.8	1909.7	1920.9	1878.2	1869.3	1840.1	1849.1
30°	7553.4	5482.1	2001.7	1505.7	1629.2	1772.8	1739.1	1754.8	1757.1	1723.4	1734.6
32.5°	7492.8	5033.3	1593.3	1395.8	1537.2	1564.1	1631.4	1662.8	1665.1	1586.5	1600.0
35°	7513.0	4591.3	1348.7	1306.0	1451.9	1445.1	1539.4	1557.3	1427.2	1319.5	1330.7
37.5°	7676.8	4182.9	1209.5	1236.5	1303.8	1355.4	1427.2	1308.3	1279.1	1229.7	1236.5
40°	7982.0	3835.0	1126.5	1193.8	1202.8	1285.8	1175.9	1191.6	1193.8	1162.4	1169.1
42.5°	8338.8	3545.5	1077.1	1169.1	1146.7	1160.2	1050.2	1081.6	1115.3	1101.8	1104.1
45°	8518.3	3262.8	1034.5	1083.9	1090.6	962.7	938.0	971.7	1014.3	1021.0	1023.3
47.5°	8359.0	2993.5	989.6	960.4	1005.3	877.4	848.2	859.5	908.8	935.8	940.2
50°	7872.0	2683.8	922.3	850.5	825.8	787.7	760.7	763.0	819.1	866.2	875.2
52.5°	7187.6	2360.7	812.3	720.3	664.2	693.4	700.1	686.7	738.3	785.4	794.4
55°	6523.4	1956.8	644.0	585.7	534.1	596.9	614.9	596.9	612.6	644.0	646.3
57.5°	4593.5	1106.3	493.7	484.7	442.1	511.6	540.8	513.9	487.0	507.1	511.6
60°	2129.6	579.0	379.2	379.2	368.0	439.8	489.2	451.0	399.4	408.4	415.1
62.5°	666.5	365.8	278.3	262.6	300.7	374.8	415.1	377.0	316.4	316.4	325.4
65°	377.0	314.2	219.9	202.0	244.6	300.7	325.4	285.0	231.1	226.6	226.6
67.5°	350.1	298.5	195.2	163.8	172.8	193.0	202.0	175.0	159.3	157.1	159.3
70°	289.5	249.1	157.1	112.2	105.5	103.2	107.7	101.0	96.5	98.7	105.5
72.5°	179.5	150.3	98.7	67.3	58.3	56.1	56.1	56.1	53.9	53.9	53.9
75°	65.1	56.1	44.9	33.7	29.2	26.9	26.9	29.2	26.9	24.7	22.4
77.5°	20.2	18.0	18.0	18.0	15.7	13.5	11.2	11.2	9.0	6.7	6.7
80°	11.2	11.2	11.2	11.2	9.0	9.0	6.7	4.5	2.2	2.2	0.0
82.5°	11.2	11.2	11.2	9.0	9.0	9.0	6.7	4.5	2.2	0.0	0.0
85°	9.0	9.0	9.0	9.0	9.0	9.0	6.7	4.5	2.2	0.0	0.0
87.5°	9.0	9.0	9.0	9.0	9.0	9.0	6.7	4.5	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)