

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: P638249

Luminaire Tested: GWS-SA4E-740-U-SL2-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P638249  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-28)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4E-740-U-SL2-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (64) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

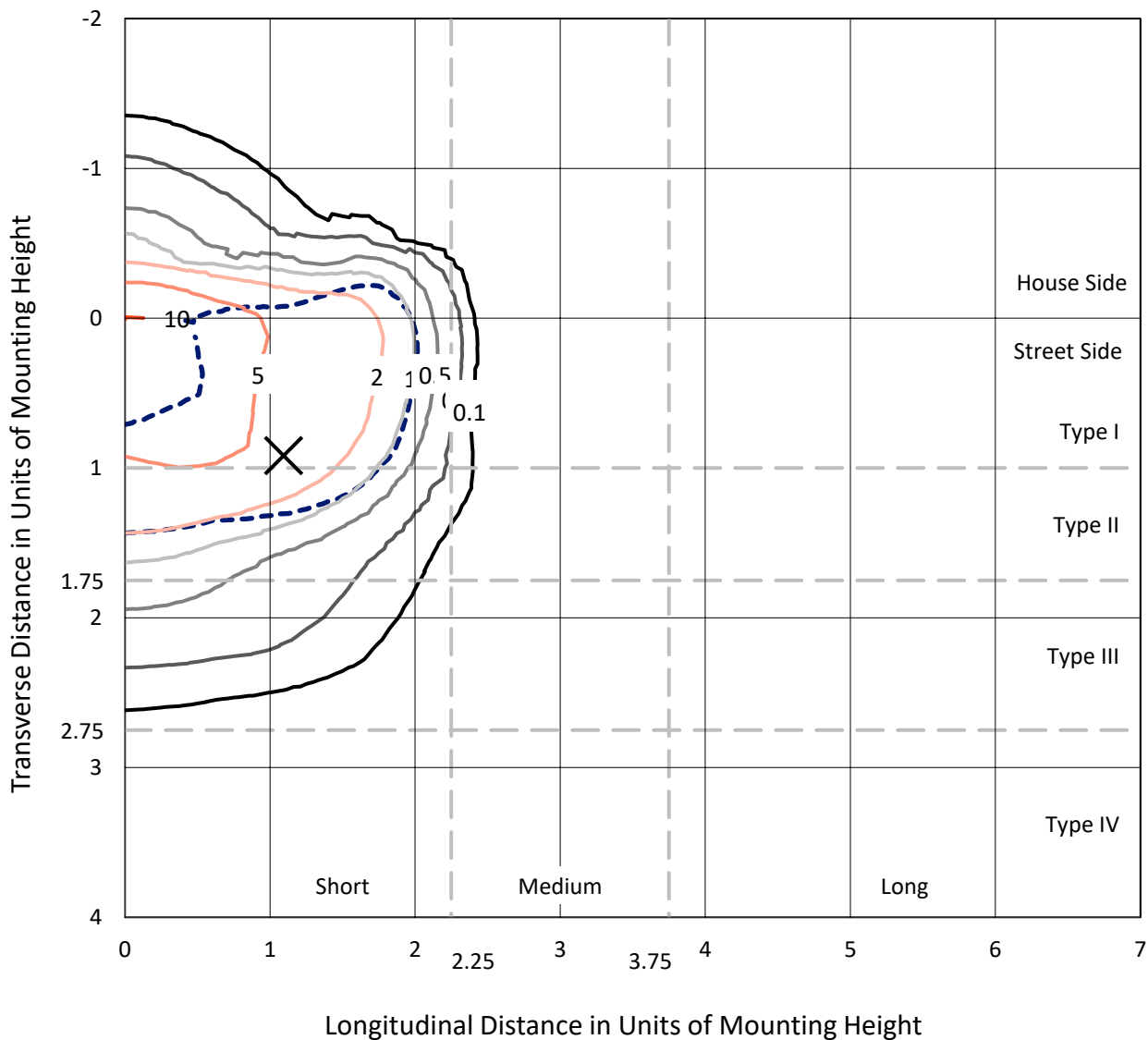
Lumens per Lamp: N/A  
Luminaire Lumens: 17969.5 lumens  
Efficiency: N/A  
Efficacy: 88.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 202.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
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



REPORT NUMBER: P638249  
 CATALOG NUMBER: GWS-SA4E-740-U-SL2-W-GRSBK

### Iso-Footcandle Lines of Horizontal Illumination

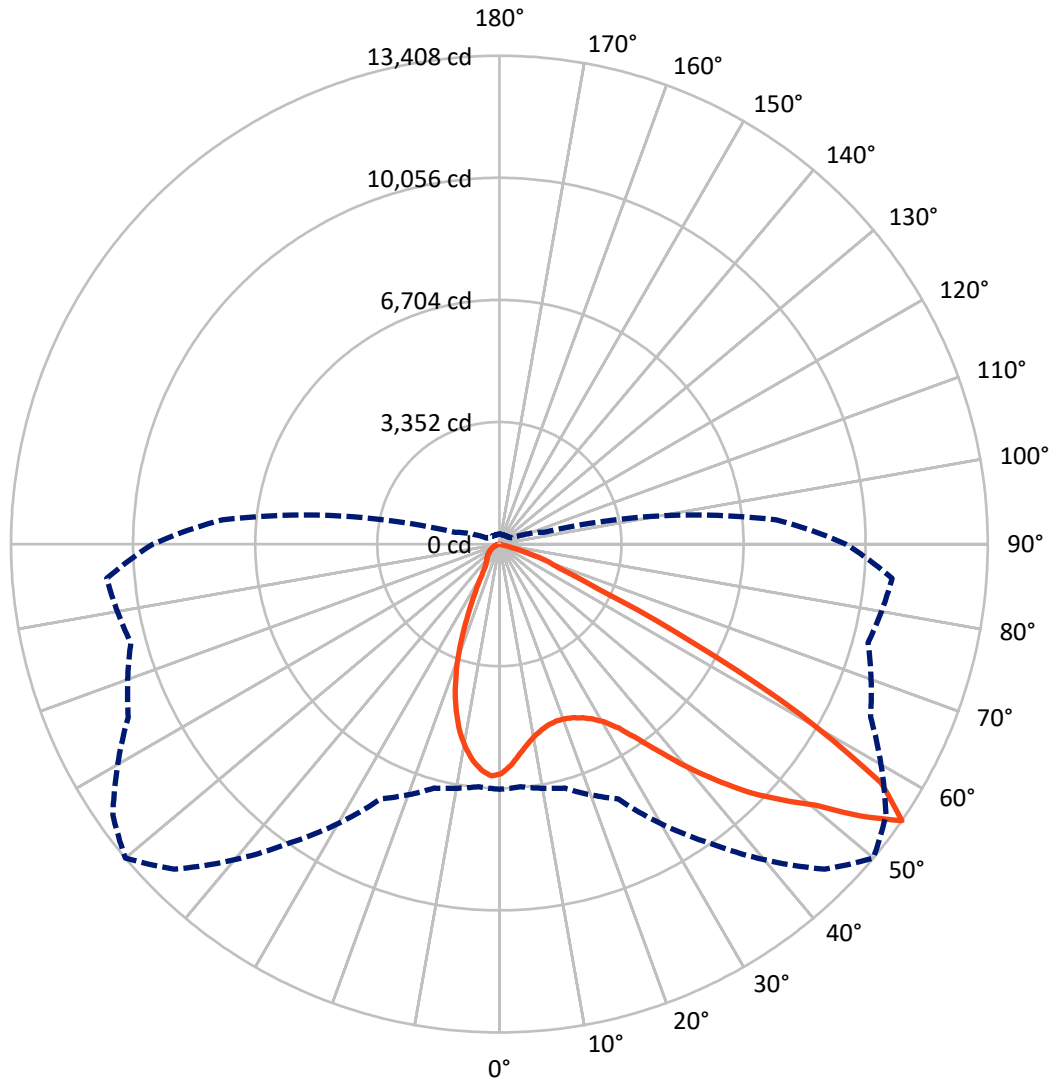
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 fc  
 Type II - Short - N/A

REPORT NUMBER: P638249  
CATALOG NUMBER: GWS-SA4E-740-U-SL2-W-GRSBK

### Luminous Intensity Polar Plot



— Vertical Plane Through 50-Deg Lateral    - - - Horizontal Cone Through 55-Deg Vertical

REPORT NUMBER: P638249  
 CATALOG NUMBER: GWS-SA4E-740-U-SL2-W-GRSBK

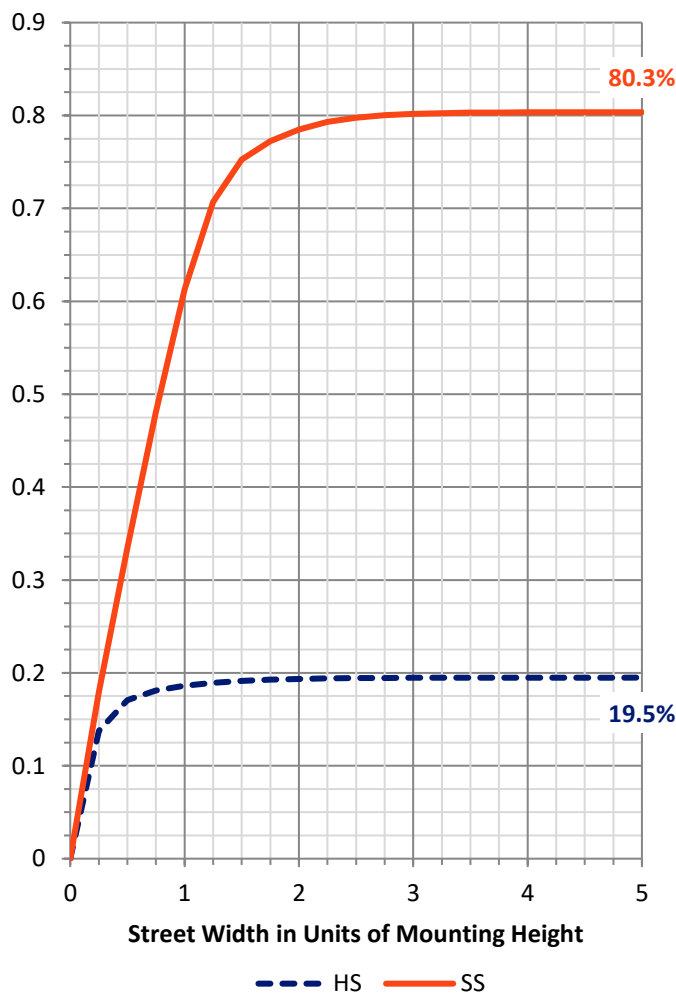
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3540.8	0.0	3540.8
	% Fixture	19.7	0.0	19.7
<b>Street Side</b>	Lumens	14428.7	0.0	14428.7
	% Fixture	80.3	0.0	80.3
<b>Total</b>	Lumens	17969.5	0.0	17969.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	553.7	3.1
10°-20°	1362.5	7.6
20°-30°	1921.9	10.7
30°-40°	2844.0	15.8
40°-50°	4103.0	22.8
50°-60°	4839.8	26.9
60°-70°	2158.9	12.0
70°-80°	185.6	1.0
80°-90°	0.1	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°	17969.5	100.0
0°-180°	17969.5	100.0

**Coefficient of Utilization**



REPORT NUMBER: P638249

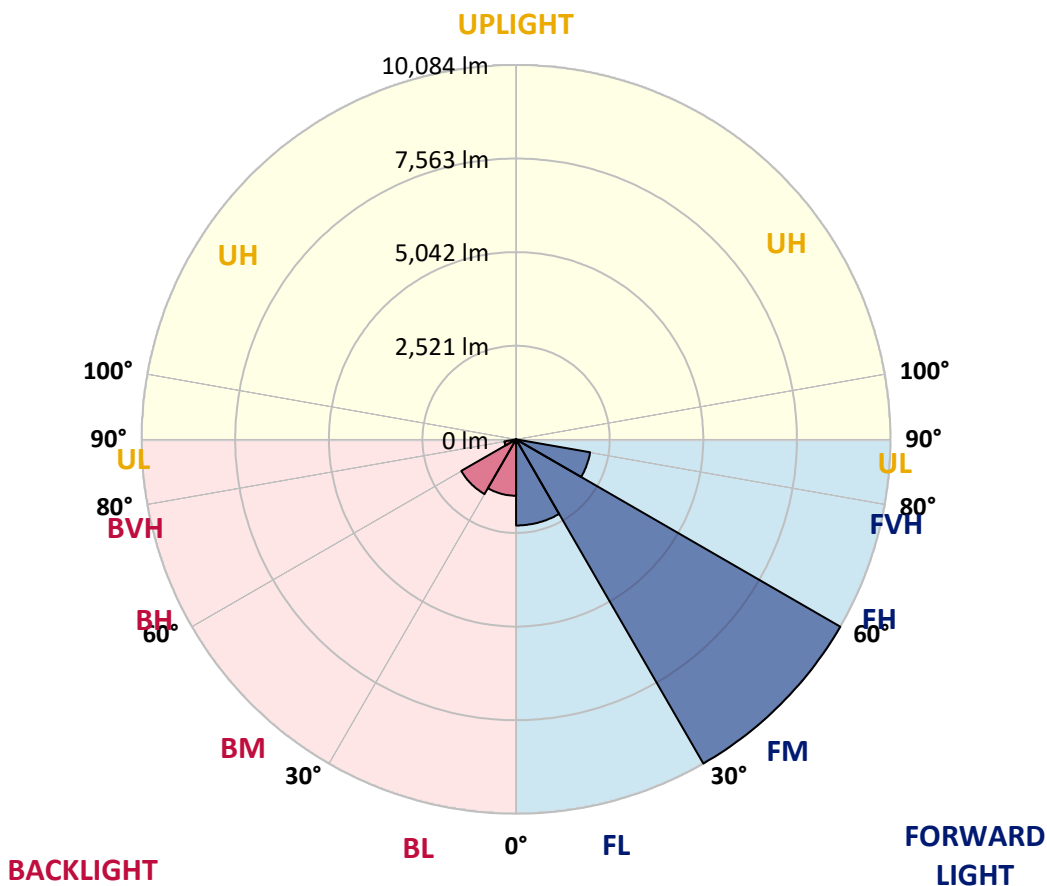
CATALOG NUMBER: GWS-SA4E-740-U-SL2-W-GRSBK

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2319.9	12.9			
FM (30°-60°)	10083.9	56.1			
FH (60°-80°)	2024.8	11.3			G2/5000
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	1518.2	8.4	B3/2500		
BM (30°-60°)	1702.9	9.5	B2/2500		
BH (60°-80°)	319.7	1.8	B1/500		G1/500
BVH (80°-90°)	0.1	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-G2**

Type II Short





REPORT NUMBER: P638249

CATALOG NUMBER: GWS-SA4E-740-U-SL2-W-GRSBK

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	6304.7	6304.7	6304.7	6304.7	6304.7	6304.7	6304.7	6304.7	6304.7	6304.7	6304.7
2.5°	5857.2	5861.6	5863.8	5923.0	5944.9	6032.7	6078.7	6102.9	6166.5	6241.1	6302.5
5°	5464.5	5457.9	5468.9	5543.5	5591.7	5721.2	5791.4	5839.6	5980.0	6155.5	6302.5
7.5°	5122.3	5135.5	5148.6	5229.8	5302.2	5442.6	5543.5	5615.9	5811.1	6072.2	6320.1
10°	4881.0	4881.0	4900.7	4992.9	5078.4	5251.7	5352.6	5444.8	5677.3	5997.6	6339.8
12.5°	4703.3	4705.5	4729.6	4834.9	4933.6	5113.5	5218.8	5308.8	5565.4	5923.0	6344.2
15°	4619.9	4613.4	4633.1	4745.0	4854.7	5023.6	5133.3	5221.0	5486.4	5881.3	6366.1
17.5°	4598.0	4593.6	4609.0	4718.7	4830.5	4995.1	5102.6	5190.3	5475.5	5894.5	6431.9
20°	4661.6	4652.8	4646.3	4740.6	4845.9	5008.2	5120.1	5218.8	5528.1	5966.9	6532.8
22.5°	4813.0	4813.0	4797.6	4843.7	4913.9	5060.9	5177.1	5306.6	5666.3	6111.7	6682.0
25°	5091.6	5069.6	5041.1	5060.9	5052.1	5144.2	5282.4	5462.3	5927.4	6350.8	6864.1
27.5°	5409.7	5429.4	5381.2	5383.3	5306.6	5273.7	5433.8	5705.8	6315.7	6688.6	7133.9
30°	5841.8	5826.5	5828.7	5822.1	5644.4	5488.6	5661.9	6023.9	6804.9	7204.1	7484.9
32.5°	6179.7	6201.6	6274.0	6315.7	6083.1	5833.1	6017.3	6456.1	7362.1	7792.0	7914.9
35°	6537.2	6576.7	6723.7	6859.7	6664.5	6377.1	6574.5	7028.6	7886.4	8373.4	8408.5
37.5°	6914.5	6993.5	7169.0	7408.1	7377.4	7123.0	7302.8	7702.1	8298.8	8724.4	8816.5
40°	7346.7	7423.5	7710.9	8055.3	8127.7	8070.6	8129.9	8362.4	8570.8	8739.7	8992.0
42.5°	7820.5	7925.8	8290.0	8750.7	9022.7	9073.2	8934.9	8910.8	8689.3	8564.2	8954.7
45°	8379.9	8502.8	8915.2	9511.9	9944.1	10012.1	9772.9	9463.6	8763.8	8434.8	8842.8
47.5°	9007.3	9123.6	9533.8	10251.2	10893.9	10920.2	10503.4	10005.5	8985.4	8584.0	8928.4
50°	9217.9	9290.3	9645.7	10488.1	11672.7	11874.5	11271.2	10615.3	9430.7	9022.7	9345.2
52.5°	8494.0	8522.5	8831.8	9683.0	11514.7	12811.2	12392.2	11525.7	10222.7	9691.8	9987.9
55°	6730.3	6684.2	6934.3	7715.3	10007.7	12620.4	13407.9	12956.0	11242.7	10477.1	10823.7
57.5°	4707.7	4652.8	4595.8	5124.5	7467.4	10698.7	12354.9	13155.6	12214.5	11255.9	11725.3
60°	3869.7	3817.0	3540.6	3297.1	4514.6	7682.3	9490.0	10997.0	12135.6	11216.4	11696.8
62.5°	3343.2	3312.5	3200.6	2869.4	2656.6	4385.2	5942.7	7386.2	9312.3	8807.7	8834.0
65°	2625.9	2617.1	2693.9	2729.0	2349.5	2426.2	3031.7	3839.0	5034.5	4747.2	4501.5
67.5°	1794.4	1774.7	1919.5	2360.4	2259.5	1915.1	1774.7	1790.1	2178.3	1331.6	1057.4
70°	1140.7	1094.7	1096.9	1463.2	1838.3	1511.5	1368.9	1204.3	1083.7	197.4	223.8
72.5°	730.5	702.0	603.3	660.3	851.2	737.1	743.7	640.6	427.8	105.3	122.8
75°	307.1	283.0	217.2	173.3	171.1	107.5	94.3	87.7	59.2	59.2	63.6
77.5°	2.2	0.0	0.0	2.2	4.4	2.2	2.2	4.4	8.8	13.2	15.4
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	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



REPORT NUMBER: P638249

CATALOG NUMBER: GWS-SA4E-740-U-SL2-W-GRSBK

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6304.7	6304.7	6304.7	6304.7	6304.7	6304.7	6304.7	6304.7	6304.7	6304.7	6304.7
2.5°	6339.8	6287.2	6346.4	6368.3	6366.1	6368.3	6304.7	6260.8	6258.6	6203.8	6177.5
5°	6363.9	6322.2	6366.1	6337.6	6269.6	6184.0	6070.0	5971.3	5927.4	5863.8	5833.1
7.5°	6410.0	6366.1	6359.5	6245.5	6076.6	5896.7	5694.9	5515.0	5418.4	5302.2	5308.8
10°	6442.9	6392.4	6306.9	6074.4	5793.6	5506.2	5205.7	4938.0	4769.1	4613.4	4587.0
12.5°	6456.1	6381.5	6181.9	5830.9	5436.0	5060.9	4619.9	4238.2	3975.0	3771.0	3742.5
15°	6480.2	6359.5	6021.7	5536.9	4995.1	4464.2	3902.6	3380.5	3031.7	2797.0	2816.7
17.5°	6517.5	6335.4	5841.8	5207.8	4521.2	3771.0	3012.0	2413.1	2092.8	1956.8	1959.0
20°	6570.1	6306.9	5644.4	4845.9	3953.1	2987.8	2106.0	1654.1	1564.1	1559.7	1553.1
22.5°	6640.3	6278.4	5433.8	4448.8	3279.6	2092.8	1401.8	1261.4	1298.7	1371.1	1384.2
25°	6723.7	6243.3	5199.1	4001.3	2544.7	1373.3	1050.8	1028.8	1118.8	1215.3	1237.2
27.5°	6853.1	6225.7	4931.4	3492.4	1785.7	985.0	859.9	873.1	954.3	1035.4	1055.2
30°	7072.5	6258.6	4639.7	2922.0	1147.3	785.3	745.9	765.6	809.5	851.2	868.7
32.5°	7370.8	6355.2	4356.7	2299.0	818.3	682.2	673.5	684.4	702.0	726.1	732.7
35°	7719.6	6521.9	4064.9	1645.3	675.7	623.0	614.2	614.2	623.0	627.4	629.6
37.5°	8007.0	6697.4	3790.7	1094.7	605.5	576.9	563.8	557.2	555.0	559.4	561.6
40°	8132.1	6769.8	3492.4	796.3	555.0	535.3	515.5	495.8	495.8	511.1	513.3
42.5°	8044.3	6688.6	3148.0	658.1	519.9	491.4	460.7	443.1	451.9	467.3	471.6
45°	7857.8	6489.0	2768.5	581.3	484.8	447.5	412.4	401.4	410.2	430.0	434.4
47.5°	7827.1	6357.3	2314.4	530.9	447.5	410.2	372.9	362.0	372.9	388.3	392.7
50°	8132.1	6471.4	1809.8	487.0	412.4	370.7	340.0	329.1	335.6	344.4	348.8
52.5°	8689.3	6894.8	1461.0	445.3	370.7	331.2	311.5	298.3	298.3	307.1	309.3
55°	9511.9	7634.1	1261.4	397.1	322.5	300.5	283.0	269.8	269.8	274.2	276.4
57.5°	10459.6	8529.1	1307.4	333.4	283.0	272.0	256.7	245.7	250.1	250.1	250.1
60°	10327.9	8463.3	1399.6	280.8	250.1	245.7	232.5	228.1	239.1	230.3	226.0
62.5°	7607.8	5846.2	732.7	230.3	215.0	210.6	201.8	210.6	226.0	201.8	193.0
65°	3694.2	2829.9	294.0	188.7	182.1	177.7	173.3	186.5	195.2	157.9	149.2
67.5°	868.7	706.4	190.9	160.1	151.4	142.6	147.0	149.2	142.6	107.5	103.1
70°	226.0	221.6	149.2	133.8	120.7	111.9	111.9	109.7	94.3	68.0	63.6
72.5°	122.8	120.7	107.5	100.9	83.4	74.6	76.8	68.0	52.6	39.5	37.3
75°	61.4	65.8	61.4	57.0	46.1	41.7	41.7	37.3	26.3	15.4	15.4
77.5°	13.2	15.4	15.4	13.2	11.0	8.8	8.8	11.0	4.4	0.0	0.0
80°	2.2	2.2	2.2	2.2	2.2	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	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)