

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: P635822

Luminaire Tested: GWS-SA3E-750-U-AFL-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P635822  
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-SA3E-750-U-AFL-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (48) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

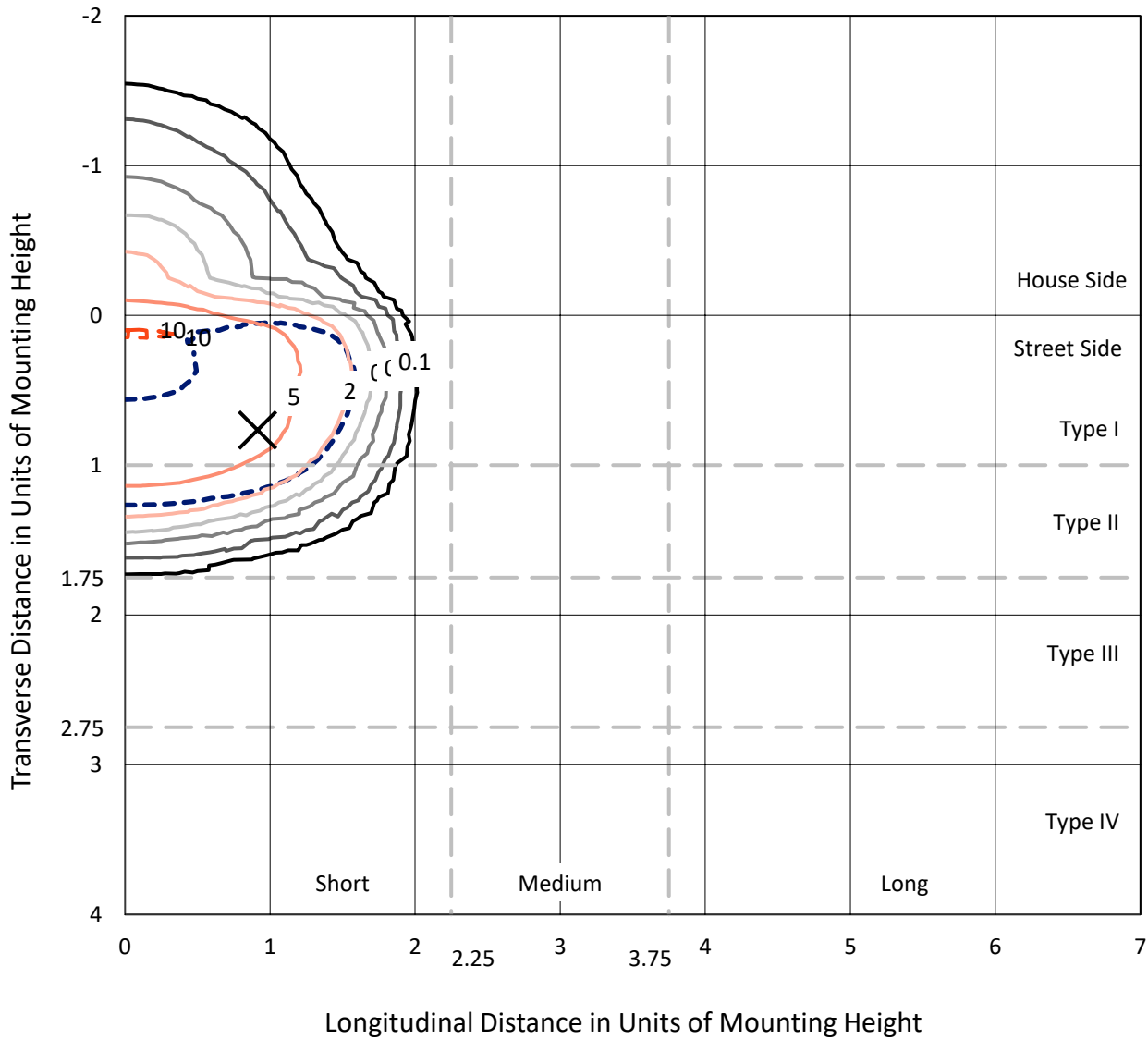
Lumens per Lamp: N/A  
Luminaire Lumens: 16942.4 lumens  
Efficiency: N/A  
Efficacy: 106.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1  
  
Input Watts (W): 159.2  
Input Voltage (V): 120  
Input Current (Ain): 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: P635822  
 CATALOG NUMBER: GWS-SA3E-750-U-AFL-W-GRSBK

### Iso-Footcandle Lines of Horizontal Illumination

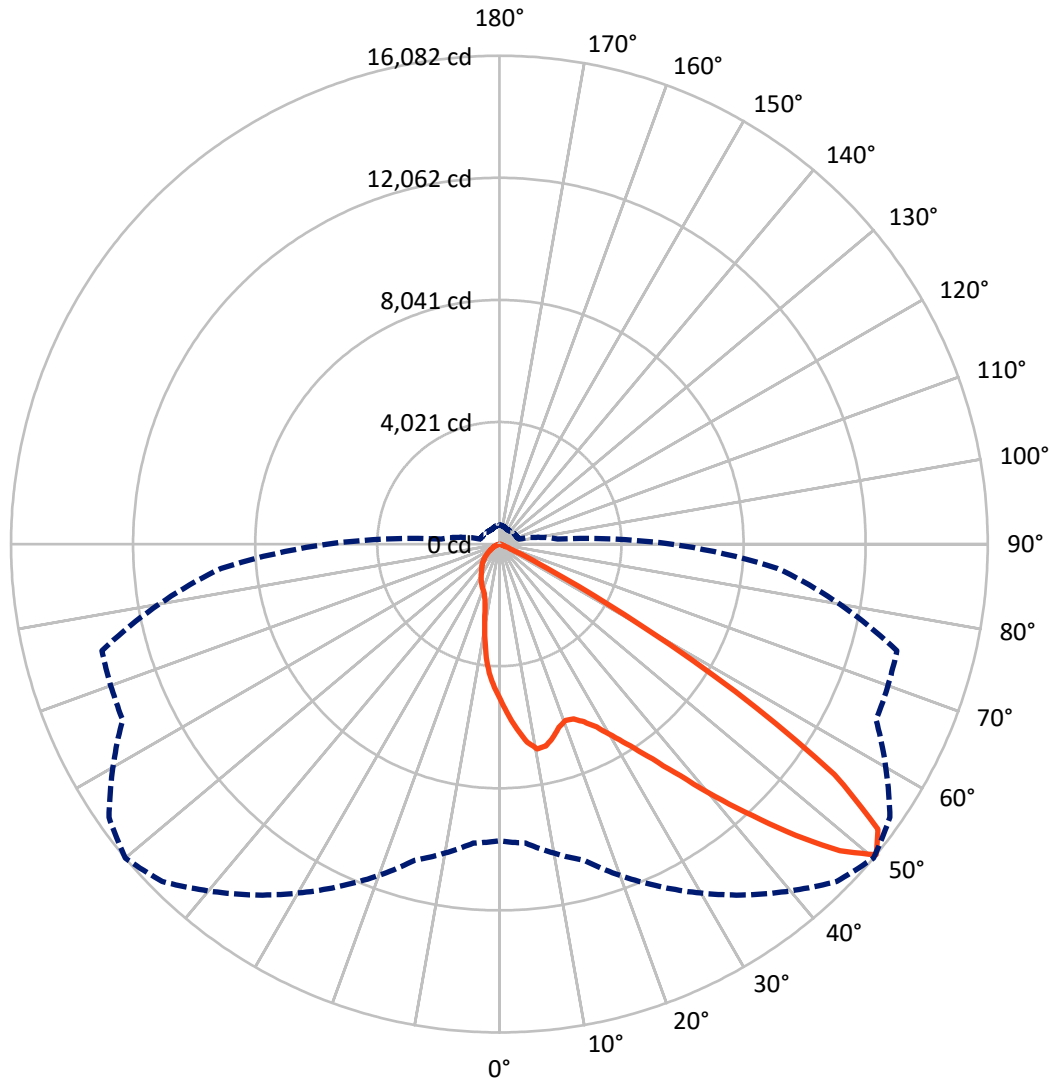
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 fc  
 Type II - Short - N/A

REPORT NUMBER: P635822  
CATALOG NUMBER: GWS-SA3E-750-U-AFL-W-GRSBK

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P635822

CATALOG NUMBER: GWS-SA3E-750-U-AFL-W-GRSBK

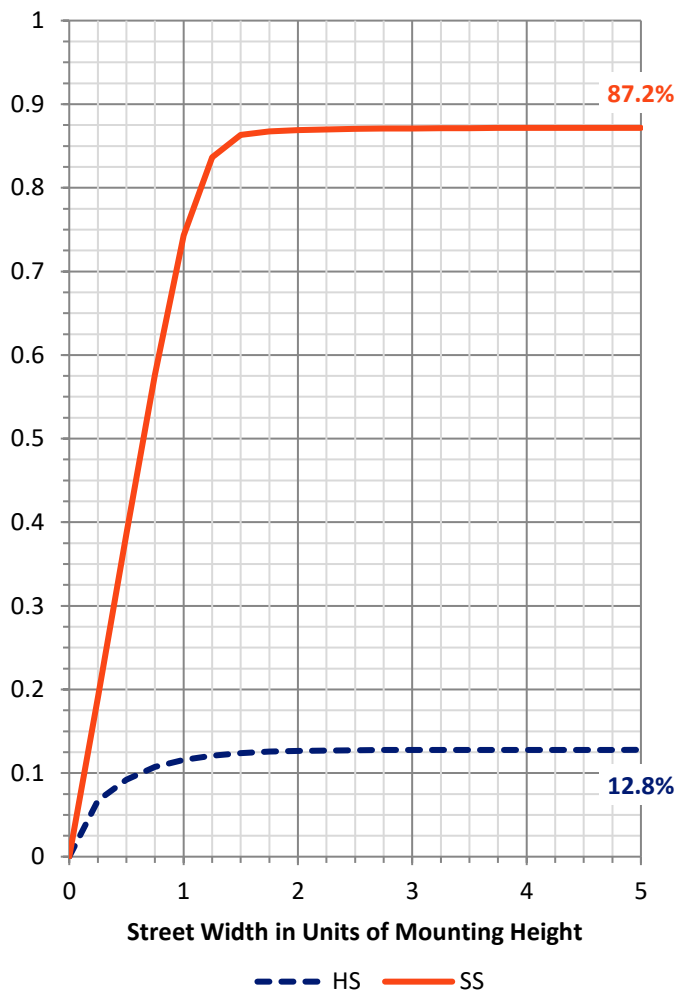
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2176.8	0.0	2176.8
	% Fixture	12.8	0.0	12.8
<b>Street Side</b>	Lumens	14765.6	0.0	14765.6
	% Fixture	87.2	0.0	87.2
<b>Total</b>	Lumens	16942.4	0.0	16942.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	476.1	2.8
10°-20°	1228.5	7.3
20°-30°	2027.5	12.0
30°-40°	3345.8	19.7
40°-50°	5293.8	31.2
50°-60°	4008.0	23.7
60°-70°	501.6	3.0
70°-80°	56.8	0.3
80°-90°	4.3	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°	16942.4	100.0
0°-180°	16942.4	100.0

**Coefficient of Utilization**



REPORT NUMBER: P635822

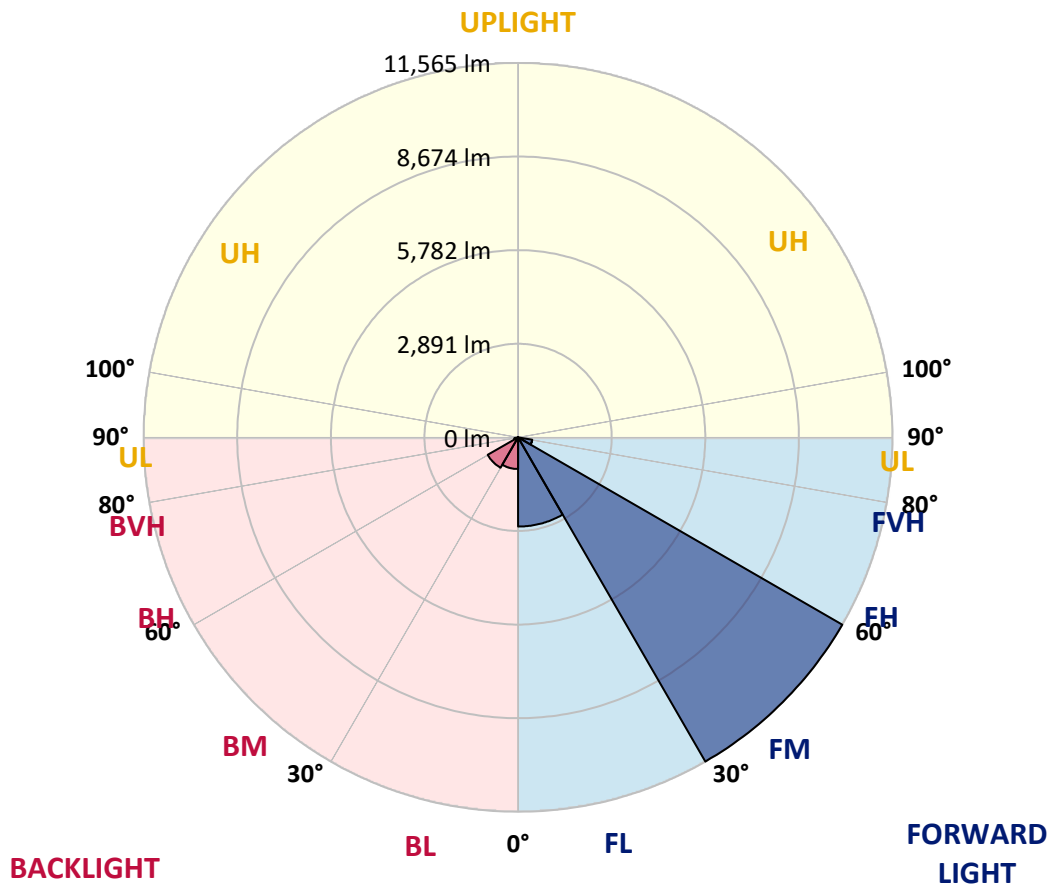
CATALOG NUMBER: GWS-SA3E-750-U-AFL-W-GRSBK

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2755.1	16.3			
FM (30°-60°)	11565.0	68.3			
FH (60°-80°)	443.5	2.6			G0/660
FVH (80°-90°)	2.0	0.0			G0/10
BL (0°-30°)	977.1	5.8	B2/1000		
BM (30°-60°)	1082.6	6.4	B2/2500		
BH (60°-80°)	114.9	0.7	B1/500		G1/500
BVH (80°-90°)	2.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**

Type II Short





REPORT NUMBER: P635822

CATALOG NUMBER: GWS-SA3E-750-U-AFL-W-GRSBK

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	5132.9	5132.9	5132.9	5132.9	5132.9	5132.9	5132.9	5132.9	5132.9	5132.9	5132.9
2.5°	5848.9	5895.6	5882.7	5821.4	5755.3	5708.6	5636.0	5613.4	5448.9	5334.4	5213.5
5°	6555.2	6569.7	6553.6	6479.4	6363.3	6252.0	6132.7	6063.3	5787.6	5539.2	5286.1
7.5°	6724.5	6706.8	6737.4	6774.5	6758.4	6710.0	6584.2	6508.4	6179.4	5774.7	5390.9
10°	6195.6	6155.3	6269.7	6461.6	6663.2	6890.6	6858.3	6864.8	6561.6	6071.4	5528.0
12.5°	5494.1	5478.0	5563.4	5786.0	6181.1	6697.1	6821.3	7029.3	6911.6	6392.3	5684.4
15°	5186.1	5194.2	5245.8	5386.1	5669.9	6311.7	6610.0	6985.7	7224.4	6703.5	5856.9
17.5°	5232.9	5261.9	5260.3	5307.0	5479.6	5994.0	6342.3	6848.7	7466.3	7061.5	6055.3
20°	5550.5	5579.6	5536.0	5500.5	5558.6	5913.4	6202.0	6710.0	7629.2	7422.8	6264.9
22.5°	6026.2	6060.1	5956.9	5855.3	5818.2	6045.6	6255.2	6653.5	7753.3	7753.3	6452.0
25°	6601.9	6648.7	6489.1	6308.5	6205.2	6324.6	6482.6	6780.9	7880.7	8050.0	6579.4
27.5°	7245.4	7247.0	7109.9	6906.7	6713.2	6727.7	6822.9	7068.0	8021.0	8369.3	6679.3
30°	7969.4	7974.3	7792.0	7548.5	7305.0	7238.9	7319.5	7505.0	8312.9	8770.9	6818.0
32.5°	8904.7	8927.3	8666.1	8308.1	7992.0	7867.8	7914.6	8109.7	8777.3	9274.0	7026.1
35°	10169.0	10193.2	9807.8	9335.3	8832.2	8645.1	8691.9	8888.6	9449.8	9988.4	7358.2
37.5°	11417.1	11449.4	11059.1	10618.9	9928.7	9619.1	9667.5	9854.5	10459.3	10975.3	7890.4
40°	12279.9	12323.4	12202.5	11905.8	11265.6	10859.2	10917.2	10985.0	11570.3	12155.7	8580.6
42.5°	12734.6	12795.9	12847.5	12999.1	12662.1	12321.8	12223.4	12228.3	12700.8	13358.7	9298.2
45°	12762.0	12821.7	13086.2	13671.5	13927.9	13857.0	13678.0	13557.0	13563.5	14160.2	9746.5
47.5°	11875.1	11986.4	12481.4	13628.0	14592.3	15180.9	15090.6	14803.6	13926.3	14213.4	9698.1
50°	9773.9	9883.6	10783.4	12433.1	14108.5	15709.9	16082.4	15697.0	13689.3	13550.6	9199.8
52.5°	7098.6	7109.9	7693.7	9620.7	12147.6	14734.2	15611.5	15574.4	13328.1	12747.5	8519.3
55°	3371.9	3331.6	3987.9	5429.6	8401.6	11917.0	13395.8	13815.1	12815.3	12167.0	7992.0
57.5°	982.1	1001.4	1293.3	2118.9	4202.4	7616.3	9174.0	9954.5	10518.9	10002.9	6198.8
60°	440.2	441.8	491.8	645.0	1399.7	3542.9	4742.6	5708.6	6289.1	5827.9	3075.2
62.5°	319.3	320.9	340.3	364.4	475.7	1199.8	1778.7	2370.5	2414.0	1580.3	778.9
65°	266.1	266.1	269.3	269.3	285.4	428.9	540.2	696.6	587.0	435.4	304.8
67.5°	214.5	216.1	219.3	219.3	214.5	214.5	232.2	254.8	272.5	337.0	280.6
70°	167.7	166.1	166.1	167.7	162.9	138.7	150.0	170.9	187.1	262.9	243.5
72.5°	130.6	132.2	130.6	124.2	112.9	82.2	88.7	111.3	119.3	164.5	164.5
75°	98.4	100.0	93.5	71.0	46.8	25.8	33.9	54.8	69.3	80.6	59.7
77.5°	12.9	12.9	9.7	9.7	8.1	9.7	9.7	12.9	19.4	19.4	14.5
80°	1.6	1.6	1.6	3.2	4.8	6.5	6.5	6.5	6.5	8.1	8.1
82.5°	1.6	1.6	1.6	1.6	4.8	4.8	6.5	6.5	6.5	6.5	6.5
85°	0.0	0.0	0.0	1.6	3.2	4.8	4.8	6.5	6.5	6.5	6.5
87.5°	0.0	0.0	0.0	1.6	3.2	4.8	4.8	4.8	6.5	6.5	6.5
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: P635822  
 CATALOG NUMBER: GWS-SA3E-750-U-AFL-W-GRSBK

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5132.9	5132.9	5132.9	5132.9	5132.9	5132.9	5132.9	5132.9	5132.9	5132.9	5132.9
2.5°	5140.9	5047.4	4934.5	4857.1	4747.5	4674.9	4571.7	4502.4	4442.7	4395.9	4421.7
5°	5142.5	4994.2	4763.6	4566.9	4352.4	4155.6	3944.4	3778.3	3628.3	3560.6	3597.7
7.5°	5174.8	4961.9	4608.8	4258.8	3847.6	3441.3	3060.7	2751.1	2597.9	2525.3	2547.9
10°	5237.7	4947.4	4436.2	3855.7	3188.1	2633.4	2264.1	2054.4	1969.0	1923.8	1931.9
12.5°	5295.7	4937.8	4212.1	3325.2	2515.6	2043.2	1851.3	1822.2	1840.0	1841.6	1840.0
15°	5374.8	4920.0	3934.7	2780.1	2012.5	1765.8	1770.6	1812.6	1854.5	1867.4	1864.2
17.5°	5458.6	4892.6	3576.7	2257.6	1707.7	1685.2	1741.6	1798.0	1840.0	1846.4	1848.0
20°	5545.7	4836.2	3168.7	1843.2	1565.8	1623.9	1686.8	1728.7	1759.3	1769.0	1772.2
22.5°	5586.0	4716.8	2697.9	1546.5	1470.7	1548.1	1594.9	1649.7	1659.4	1623.9	1630.3
25°	5565.0	4515.3	2238.3	1346.5	1375.5	1452.9	1522.3	1494.9	1454.6	1428.8	1436.8
27.5°	5498.9	4247.6	1788.4	1199.8	1273.9	1372.3	1380.4	1349.7	1343.3	1322.3	1328.8
30°	5428.0	3939.6	1438.4	1082.0	1170.7	1273.9	1249.8	1261.0	1262.7	1238.5	1246.5
32.5°	5384.4	3617.0	1144.9	1003.0	1104.6	1124.0	1172.4	1194.9	1196.5	1140.1	1149.8
35°	5399.0	3299.4	969.2	938.5	1043.3	1038.5	1106.2	1119.1	1025.6	948.2	956.3
37.5°	5516.7	3005.9	869.2	888.5	936.9	974.0	1025.6	940.1	919.2	883.7	888.5
40°	5736.0	2755.9	809.5	857.9	864.3	924.0	845.0	856.3	857.9	835.3	840.2
42.5°	5992.4	2547.9	774.0	840.2	824.0	833.7	754.7	777.3	801.5	791.8	793.4
45°	6121.4	2344.7	743.4	778.9	783.7	691.8	674.1	698.3	728.9	733.7	735.3
47.5°	6006.9	2151.2	711.2	690.2	722.4	630.5	609.6	617.6	653.1	672.4	675.7
50°	5657.0	1928.7	662.8	611.2	593.4	566.0	546.7	548.3	588.6	622.5	628.9
52.5°	5165.1	1696.4	583.8	517.6	477.3	498.3	503.1	493.5	530.5	564.4	570.9
55°	4687.8	1406.2	462.8	420.9	383.8	428.9	441.8	428.9	440.2	462.8	464.4
57.5°	3301.0	795.0	354.8	348.3	317.7	367.7	388.6	369.3	349.9	364.4	367.7
60°	1530.3	416.0	272.5	272.5	264.5	316.1	351.5	324.1	287.0	293.5	298.3
62.5°	478.9	262.9	200.0	188.7	216.1	269.3	298.3	270.9	227.4	227.4	233.8
65°	270.9	225.8	158.0	145.1	175.8	216.1	233.8	204.8	166.1	162.9	162.9
67.5°	251.6	214.5	140.3	117.7	124.2	138.7	145.1	125.8	114.5	112.9	114.5
70°	208.0	179.0	112.9	80.6	75.8	74.2	77.4	72.6	69.3	71.0	75.8
72.5°	129.0	108.0	71.0	48.4	41.9	40.3	40.3	40.3	38.7	38.7	38.7
75°	46.8	40.3	32.3	24.2	21.0	19.4	19.4	21.0	19.4	17.7	16.1
77.5°	14.5	12.9	12.9	12.9	11.3	9.7	8.1	8.1	6.5	4.8	4.8
80°	8.1	8.1	8.1	8.1	6.5	6.5	4.8	3.2	1.6	1.6	0.0
82.5°	8.1	8.1	8.1	6.5	6.5	6.5	4.8	3.2	1.6	0.0	0.0
85°	6.5	6.5	6.5	6.5	6.5	6.5	4.8	3.2	1.6	0.0	0.0
87.5°	6.5	6.5	6.5	6.5	6.5	6.5	4.8	3.2	1.6	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)