

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: P637782

Luminaire Tested: GWS-SA4D-740-U-T3-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P637782  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-25)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4D-740-U-T3-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (64) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

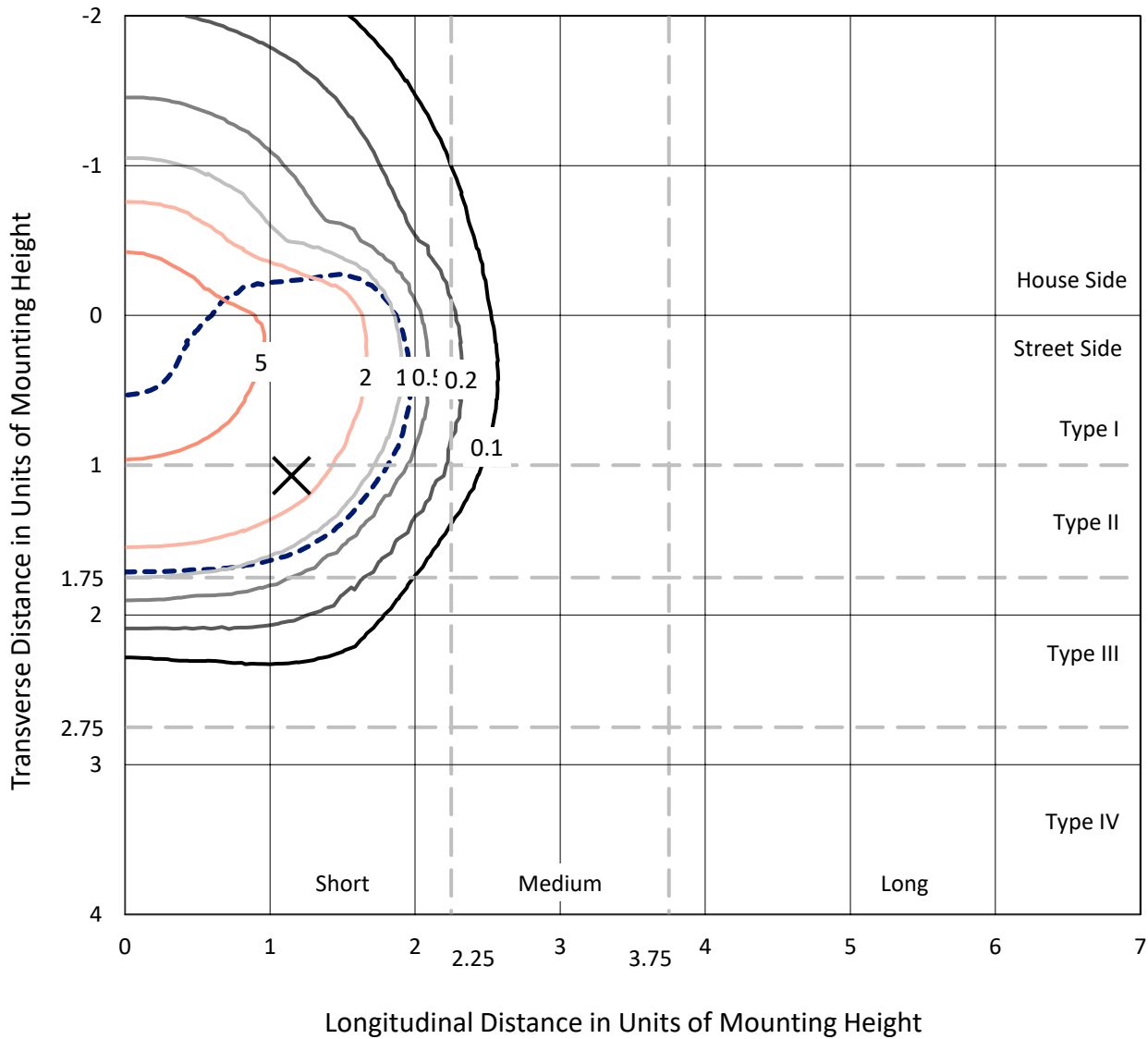
Lumens per Lamp: N/A  
Luminaire Lumens: 20901.5 lumens  
Efficiency: N/A  
Efficacy: 128.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 162.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
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: P637782  
 CATALOG NUMBER: GWS-SA4D-740-U-T3-W-GRSWH

### Iso-Footcandle Lines of Horizontal Illumination

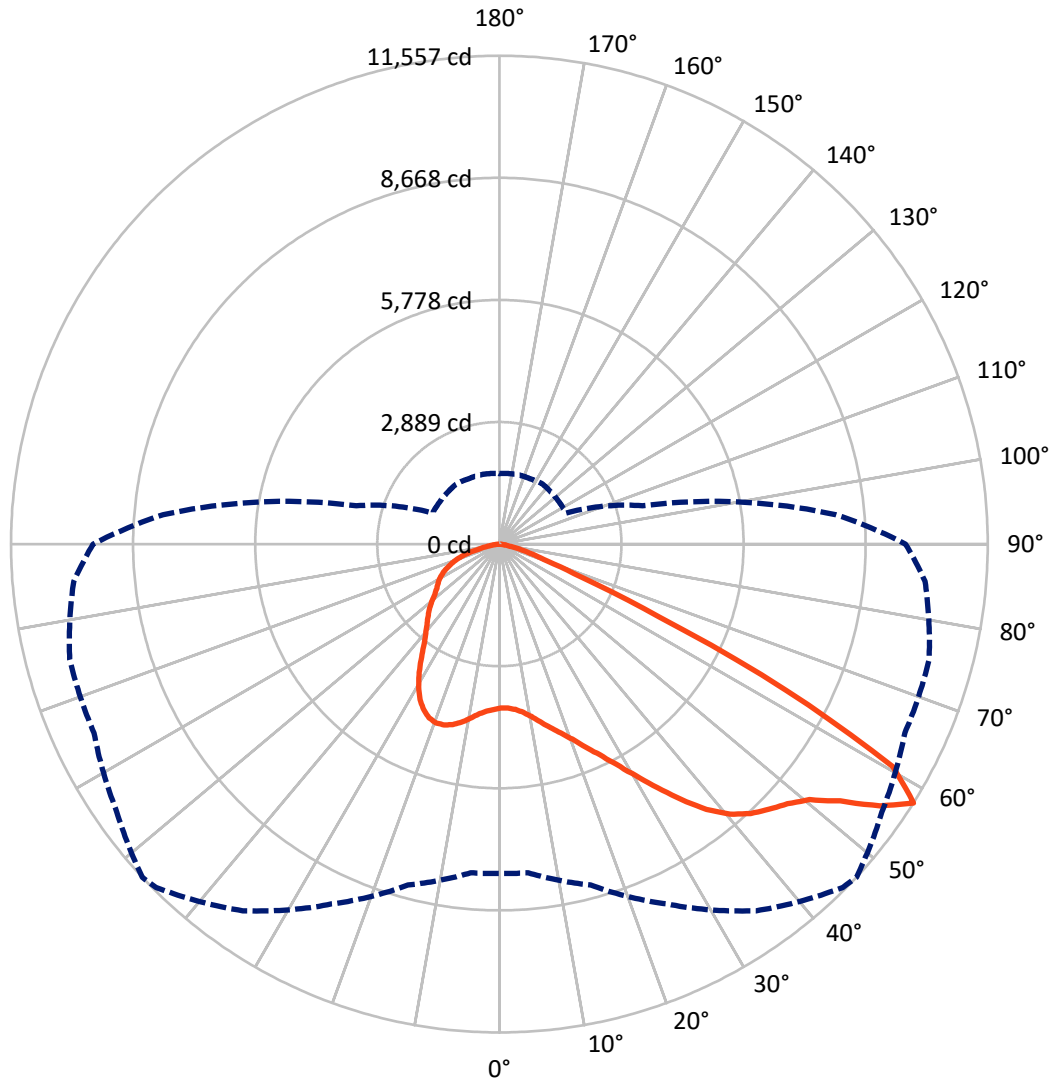
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc  
 Type II - Short - N/A

REPORT NUMBER: P637782  
CATALOG NUMBER: GWS-SA4D-740-U-T3-W-GRSWH

### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

REPORT NUMBER: P637782

CATALOG NUMBER: GWS-SA4D-740-U-T3-W-GRSWH

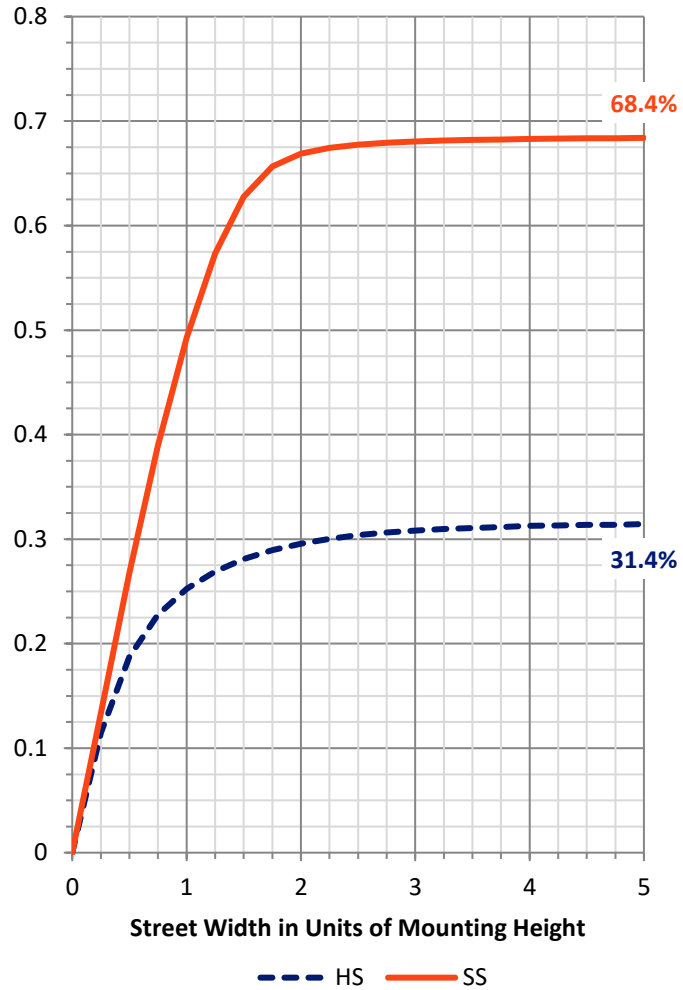
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6615.3	0.0	6615.3
	% Fixture	31.6	0.0	31.6
<b>Street Side</b>	Lumens	14286.2	0.0	14286.2
	% Fixture	68.4	0.0	68.4
<b>Total</b>	Lumens	20901.5	0.0	20901.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	382.3	1.8
10°-20°	1257.5	6.0
20°-30°	2264.2	10.8
30°-40°	3419.8	16.4
40°-50°	4605.2	22.0
50°-60°	5533.7	26.5
60°-70°	2695.0	12.9
70°-80°	664.0	3.2
80°-90°	79.8	0.4
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°	20901.5	100.0
0°-180°	20901.5	100.0

**Coefficient of Utilization**



REPORT NUMBER: P637782

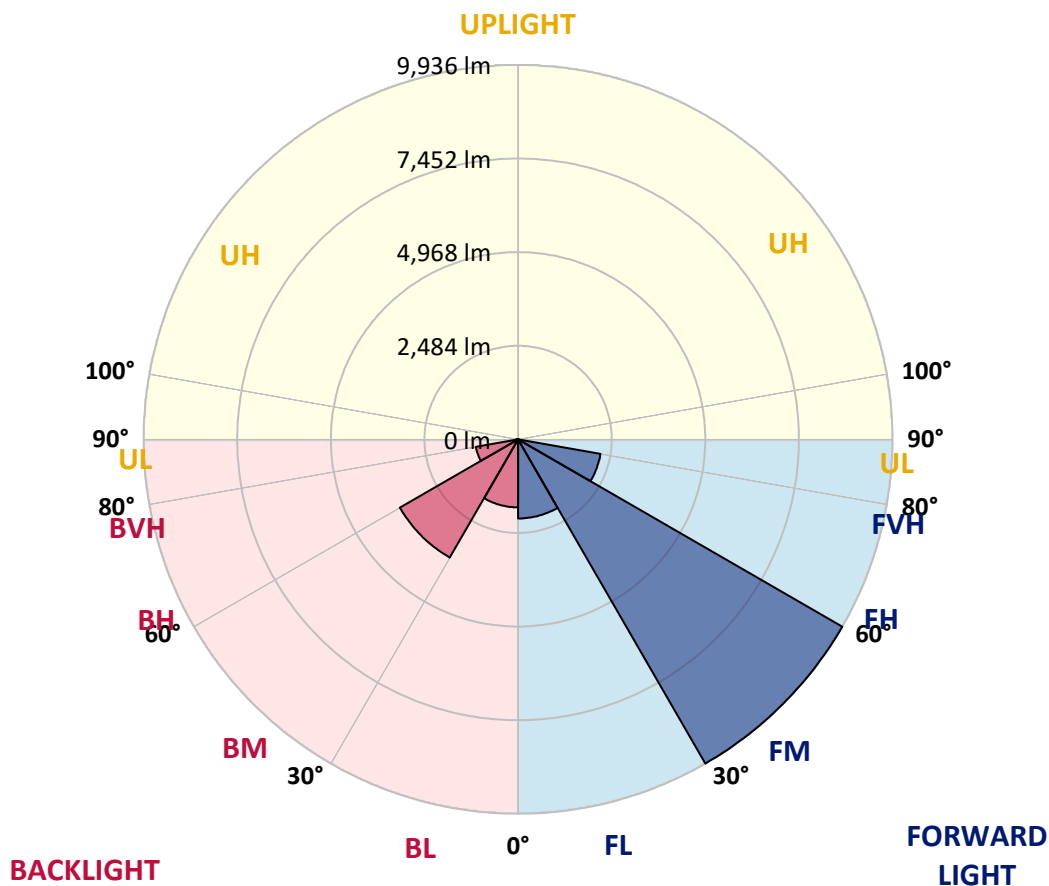
CATALOG NUMBER: GWS-SA4D-740-U-T3-W-GRSWH

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2099.4	10.0			
FM (30°-60°)	9935.6	47.5			
FH (60°-80°)	2221.2	10.6			G2/5000
FVH (80°-90°)	30.0	0.1			G1/100
BL (0°-30°)	1804.5	8.6	B3/2500		
BM (30°-60°)	3623.2	17.3	B3/5000		
BH (60°-80°)	1137.8	5.4	B3/2500		G3/2500
BVH (80°-90°)	49.8	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Short





REPORT NUMBER: P637782

CATALOG NUMBER: GWS-SA4D-740-U-T3-W-GRSWH

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	3876.2	3876.2	3876.2	3876.2	3876.2	3876.2	3876.2	3876.2	3876.2	3876.2	3876.2
2.5°	3869.2	3867.4	3867.4	3878.0	3878.0	3881.5	3886.7	3892.0	3893.8	3885.0	3865.7
5°	3911.3	3911.3	3911.3	3920.1	3920.1	3923.6	3930.6	3932.4	3930.6	3916.6	3897.3
7.5°	3978.0	3978.0	3979.8	3990.3	3999.1	4004.4	4016.7	4014.9	4009.6	3986.8	3962.2
10°	4086.9	4092.1	4097.4	4109.7	4127.3	4139.5	4148.3	4148.3	4141.3	4106.2	4074.6
12.5°	4241.4	4248.4	4253.7	4264.2	4278.2	4299.3	4318.6	4318.6	4309.8	4265.9	4218.5
15°	4422.2	4429.2	4427.5	4431.0	4457.3	4487.1	4502.9	4513.5	4517.0	4455.5	4381.8
17.5°	4629.3	4636.4	4629.3	4618.8	4622.3	4669.7	4697.8	4736.4	4759.2	4676.7	4559.1
20°	4817.2	4810.2	4810.2	4817.2	4827.7	4885.6	4927.8	4991.0	5019.1	4919.0	4736.4
22.5°	5015.6	5031.4	5024.3	5024.3	5066.5	5163.0	5213.9	5296.4	5326.3	5196.4	4950.6
25°	5271.9	5285.9	5282.4	5285.9	5335.1	5472.0	5522.9	5675.6	5705.5	5519.4	5187.6
27.5°	5552.7	5575.6	5586.1	5582.6	5661.6	5840.7	5903.9	6116.3	6170.7	5881.0	5440.4
30°	5917.9	5942.5	5951.3	5947.7	6040.8	6284.8	6356.8	6599.0	6676.3	6309.4	5761.7
32.5°	6341.0	6365.6	6391.9	6402.4	6521.8	6771.1	6874.7	7125.7	7236.3	6804.4	6149.6
35°	6760.6	6781.6	6832.5	6915.0	7078.3	7332.9	7424.1	7671.7	7778.8	7318.8	6618.4
37.5°	7224.0	7238.1	7281.9	7396.1	7631.3	7873.6	7964.8	8201.8	8214.1	7815.6	7148.5
40°	7731.4	7731.4	7722.6	7834.9	8080.7	8324.7	8403.7	8540.7	8468.7	8198.3	7664.7
42.5°	8161.5	8154.4	8161.5	8266.8	8449.4	8647.7	8716.2	8689.9	8598.6	8491.5	8131.6
45°	8549.4	8554.7	8617.9	8698.7	8793.5	8911.1	8951.5	8802.2	8719.7	8726.7	8505.5
47.5°	8812.8	8818.0	8965.5	9100.7	9158.6	9195.5	9177.9	8970.8	8928.6	9007.6	8793.5
50°	8847.9	8876.0	9130.5	9407.9	9551.8	9557.1	9508.0	9255.2	9242.9	9332.4	8947.9
52.5°	8854.9	8883.0	9200.7	9701.1	10075.0	10154.0	10097.8	9834.5	9706.3	9616.8	9137.5
55°	8828.6	8860.2	9211.3	9897.7	10613.9	10929.9	10935.2	10563.0	10154.0	10094.3	9678.2
57.5°	7794.6	7806.8	8351.1	9397.4	10592.9	11488.2	11556.7	11051.1	10584.1	10527.9	10111.9
60°	5429.9	5479.0	6070.6	7452.2	8898.8	10477.0	10698.2	10550.7	10238.3	9829.2	8675.8
62.5°	2719.3	2761.5	3354.8	4660.9	6137.3	7383.8	7620.8	7777.0	7850.7	7411.9	5907.4
65°	1170.9	1202.5	1571.2	2434.9	3474.2	4076.3	4158.9	4346.7	4806.6	4288.8	3182.8
67.5°	783.0	804.0	991.9	1485.2	2046.9	2085.6	2073.3	2113.7	2213.7	1827.5	1437.8
70°	600.4	617.9	744.3	1088.4	1471.1	1258.7	1192.0	1081.4	1174.5	1197.3	1165.7
72.5°	435.4	449.4	544.2	742.6	921.7	804.0	793.5	849.7	976.1	1011.2	991.9
75°	280.9	287.9	345.8	407.3	475.7	516.1	537.2	639.0	767.2	793.5	770.7
77.5°	187.8	193.1	226.5	261.6	270.4	272.1	279.1	324.8	412.5	461.7	456.4
80°	98.3	98.3	110.6	110.6	126.4	151.0	158.0	187.8	228.2	252.8	254.6
82.5°	38.6	40.4	47.4	52.7	63.2	77.2	82.5	98.3	119.4	136.9	152.7
85°	15.8	17.6	19.3	22.8	28.1	35.1	36.9	42.1	56.2	70.2	79.0
87.5°	0.0	0.0	1.8	1.8	3.5	5.3	5.3	7.0	8.8	15.8	21.1
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: P637782  
 CATALOG NUMBER: GWS-SA4D-740-U-T3-W-GRSWH

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3876.2	3876.2	3876.2	3876.2	3876.2	3876.2	3876.2	3876.2	3876.2	3876.2	3876.2
2.5°	3888.5	3865.7	3888.5	3895.5	3914.8	3921.9	3909.6	3907.8	3907.8	3890.3	3885.0
5°	3914.8	3893.8	3916.6	3927.1	3955.2	3972.8	3976.3	3990.3	3999.1	3992.1	3990.3
7.5°	3979.8	3953.5	3978.0	3993.8	4030.7	4058.8	4071.1	4102.7	4125.5	4122.0	4120.2
10°	4093.9	4058.8	4086.9	4113.2	4153.6	4186.9	4188.7	4206.3	4229.1	4222.1	4218.5
12.5°	4225.6	4192.2	4223.8	4250.1	4297.5	4311.6	4288.8	4281.7	4285.3	4276.5	4269.5
15°	4387.1	4339.7	4367.8	4397.6	4423.9	4408.1	4359.0	4339.7	4337.9	4325.6	4318.6
17.5°	4548.6	4488.9	4510.0	4525.8	4513.5	4464.3	4402.9	4369.5	4353.7	4329.1	4322.1
20°	4708.3	4632.8	4629.3	4617.0	4560.9	4471.3	4388.8	4322.1	4281.7	4248.4	4236.1
22.5°	4890.9	4785.6	4732.9	4676.7	4553.8	4408.1	4283.5	4188.7	4123.7	4081.6	4067.6
25°	5087.5	4938.3	4829.5	4717.1	4483.6	4273.0	4099.2	3969.3	3892.0	3846.4	3830.6
27.5°	5282.4	5077.0	4913.7	4722.4	4343.2	4078.1	3844.6	3669.1	3591.8	3555.0	3542.7
30°	5545.7	5261.3	5013.8	4653.9	4158.9	3807.7	3516.3	3339.0	3288.1	3261.8	3251.2
32.5°	5849.4	5494.8	5147.2	4510.0	3923.6	3491.8	3184.5	3061.6	3026.5	2975.6	2973.9
35°	6249.7	5828.4	5273.6	4297.5	3626.9	3152.9	2930.0	2842.2	2779.0	2698.3	2691.2
37.5°	6716.7	6244.4	5342.1	4027.2	3281.1	2873.8	2740.4	2642.1	2540.3	2433.2	2419.1
40°	7199.4	6730.7	5347.3	3707.7	2942.3	2689.5	2577.1	2449.0	2322.6	2203.2	2187.4
42.5°	7706.8	7183.6	5254.3	3339.0	2664.9	2529.7	2415.6	2254.1	2111.9	2031.1	2022.4
45°	8159.7	7548.8	5043.6	2951.0	2459.5	2396.3	2250.6	2076.8	2001.3	1943.4	1931.1
47.5°	8516.1	7791.0	4759.2	2603.5	2292.7	2259.4	2069.8	1980.2	1922.3	1869.6	1857.4
50°	8691.6	7845.5	4388.8	2320.8	2138.2	2097.9	1968.0	1899.5	1860.9	1818.7	1808.2
52.5°	8909.3	7906.9	4069.3	2083.8	1987.3	1932.8	1883.7	1829.3	1801.2	1774.8	1766.1
55°	9409.6	8138.6	3900.8	1894.2	1843.3	1818.7	1811.7	1766.1	1757.3	1739.7	1723.9
57.5°	9613.3	7989.4	3502.3	1739.7	1729.2	1732.7	1750.3	1708.1	1699.4	1678.3	1667.8
60°	7731.4	6039.0	2371.7	1606.3	1634.4	1657.2	1674.8	1632.6	1620.4	1616.8	1602.8
62.5°	4954.1	3714.7	1655.5	1481.7	1523.8	1551.9	1562.4	1522.0	1513.3	1541.4	1543.1
65°	2578.9	2024.1	1343.0	1348.2	1383.4	1425.5	1446.6	1432.5	1429.0	1458.8	1460.6
67.5°	1316.6	1237.6	1170.9	1190.3	1218.3	1272.8	1321.9	1383.4	1404.4	1407.9	1409.7
70°	1121.8	1086.7	1053.3	1065.6	1095.5	1125.3	1172.7	1202.5	1167.4	1158.7	1155.1
72.5°	955.0	928.7	912.9	926.9	942.7	937.5	923.4	937.5	942.7	944.5	946.2
75°	742.6	723.3	711.0	712.7	712.7	693.4	667.1	651.3	633.7	619.7	619.7
77.5°	454.7	458.2	470.5	468.7	467.0	459.9	433.6	419.6	377.4	365.2	365.2
80°	259.8	265.1	277.4	280.9	280.9	272.1	245.8	230.0	210.7	201.9	200.1
82.5°	158.0	165.0	172.0	175.6	177.3	166.8	144.0	131.7	121.1	112.4	112.4
85°	82.5	86.0	93.0	94.8	89.5	79.0	66.7	61.4	50.9	49.2	49.2
87.5°	22.8	24.6	28.1	22.8	21.1	15.8	8.8	7.0	3.5	1.8	1.8
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)