

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: P637786

Luminaire Tested: GWS-SA4D-740-U-T3R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637786
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-17)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4D-740-U-T3R-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY 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: 21470.3 lumens
Efficiency: N/A
Efficacy: 132.5 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

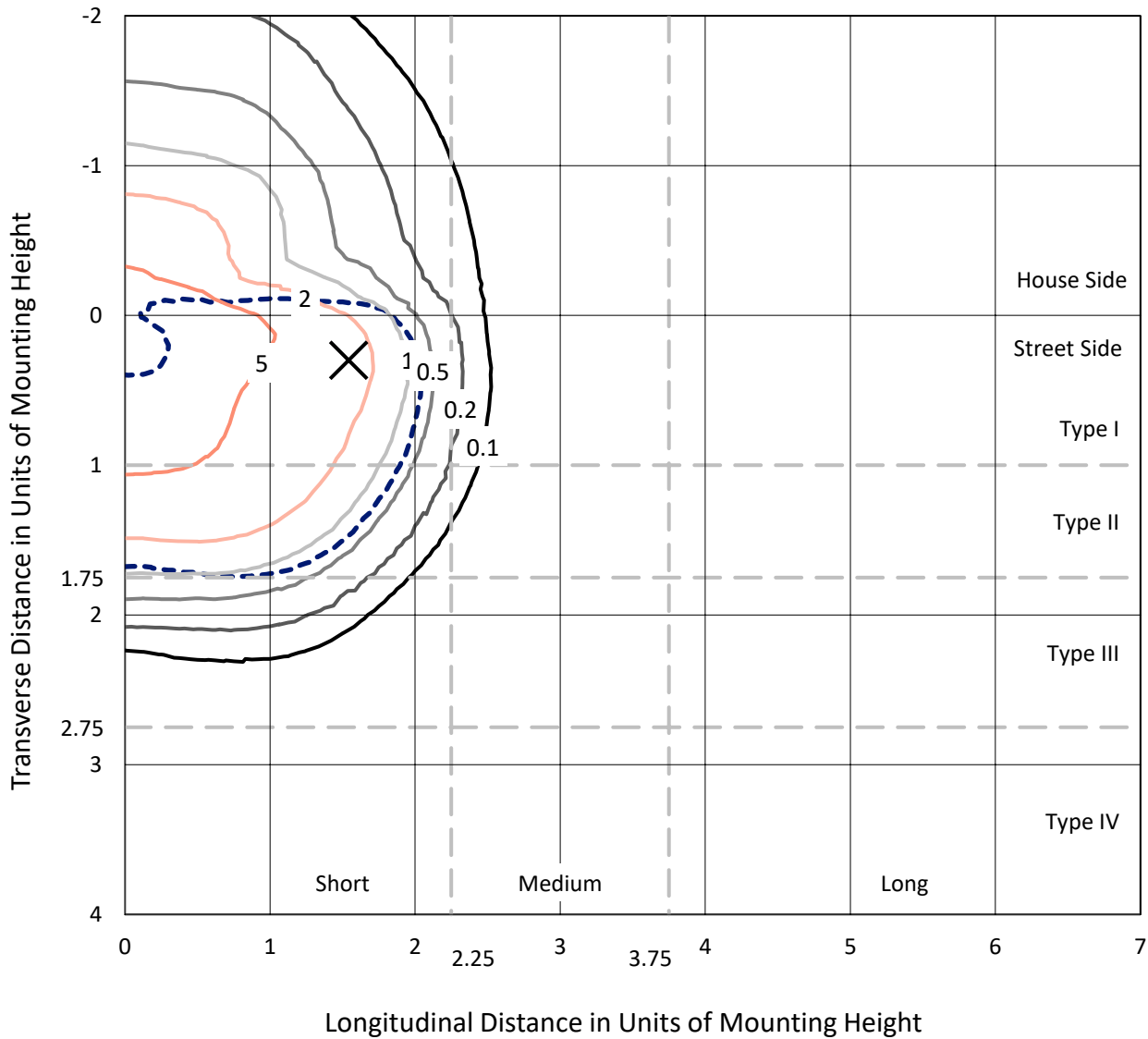


REPORT NUMBER: P637786

CATALOG NUMBER: GWS-SA4D-740-U-T3R-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

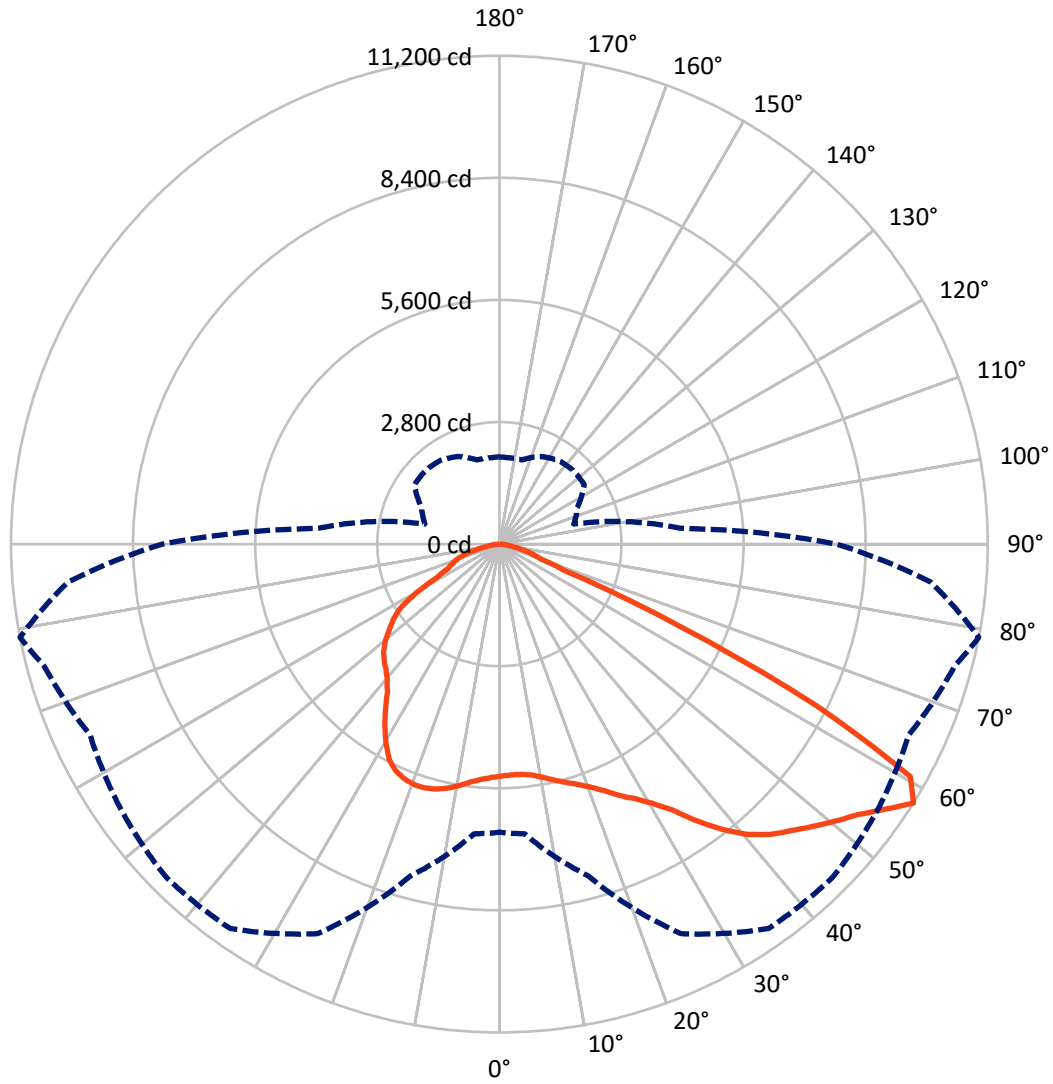
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 fc
 Type II - Short - N/A

REPORT NUMBER: P637786
CATALOG NUMBER: GWS-SA4D-740-U-T3R-W-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

REPORT NUMBER: P637786

CATALOG NUMBER: GWS-SA4D-740-U-T3R-W-GRSWH

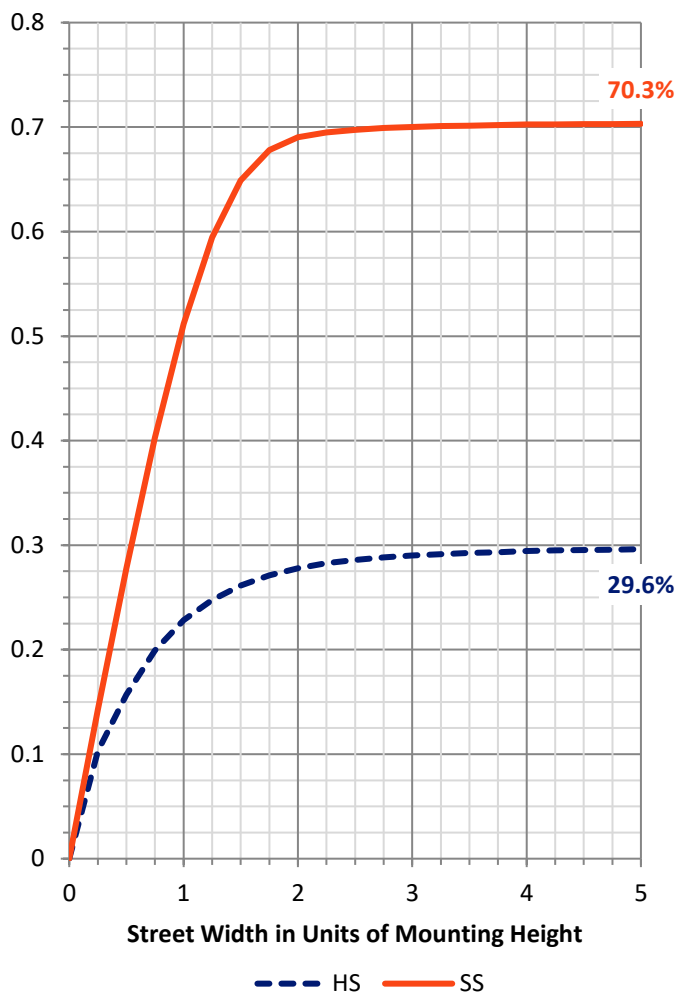
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6382.1	0.0	6382.1
	% Fixture	29.7	0.0	29.7
Street Side	Lumens	15088.2	0.0	15088.2
	% Fixture	70.3	0.0	70.3
Total	Lumens	21470.3	0.0	21470.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	492.8	2.3
10°-20°	1369.4	6.4
20°-30°	2321.1	10.8
30°-40°	3552.8	16.5
40°-50°	4737.3	22.1
50°-60°	5471.2	25.5
60°-70°	2843.0	13.2
70°-80°	604.4	2.8
80°-90°	78.3	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°	21470.3	100.0
0°-180°	21470.3	100.0

Coefficient of Utilization



REPORT NUMBER: P637786

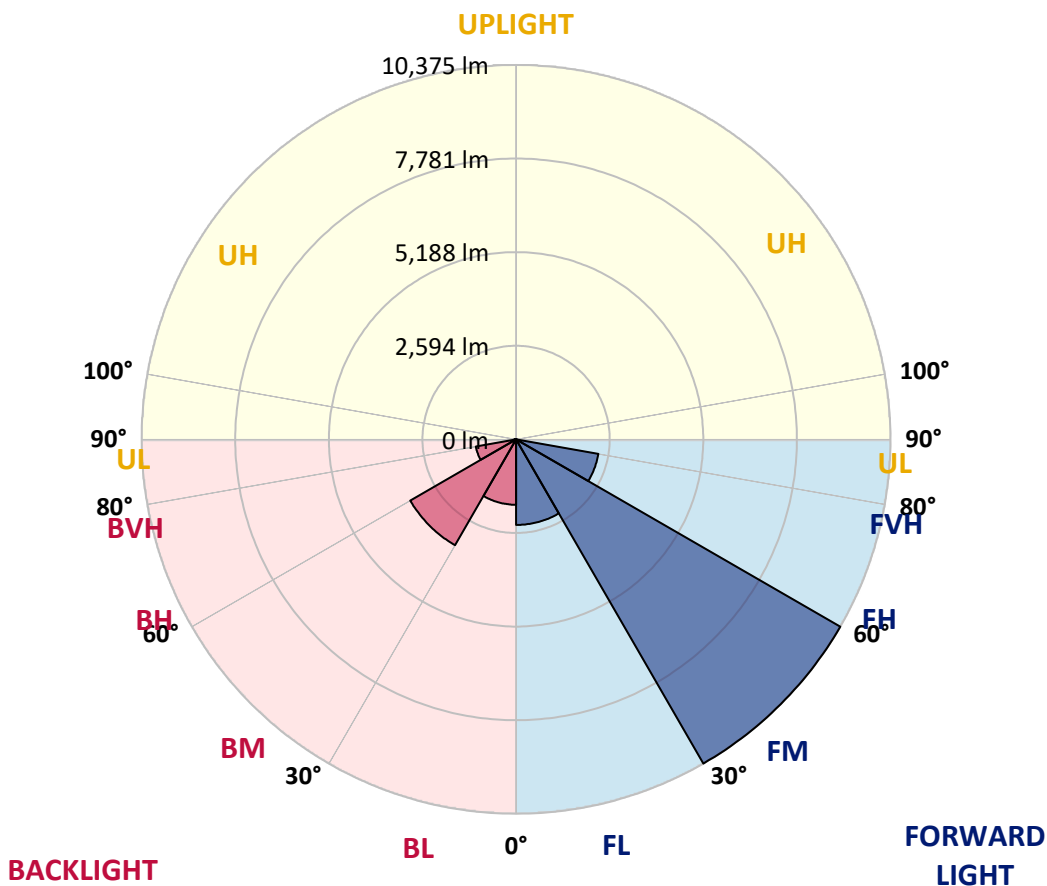
CATALOG NUMBER: GWS-SA4D-740-U-T3R-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2370.8	11.0			
FM (30°-60°)	10375.1	48.3			
FH (60°-80°)	2315.0	10.8			G2/5000
FVH (80°-90°)	27.3	0.1			G1/100
BL (0°-30°)	1812.5	8.4	B3/2500		
BM (30°-60°)	3386.3	15.8	B3/5000		
BH (60°-80°)	1132.4	5.3	B3/2500		G3/2500
BVH (80°-90°)	51.0	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: P637786

CATALOG NUMBER: GWS-SA4D-740-U-T3R-W-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	5320.8	5320.8	5320.8	5320.8	5320.8	5320.8	5320.8	5320.8	5320.8	5320.8	5320.8
2.5°	5078.6	5068.0	5071.6	5085.6	5138.3	5176.9	5217.3	5254.1	5289.2	5299.8	5308.5
5°	4897.8	4878.5	4883.7	4906.5	4968.0	5032.9	5104.9	5192.7	5276.9	5305.0	5341.9
7.5°	4769.6	4766.1	4774.9	4810.0	4874.9	4936.4	5029.4	5154.1	5299.8	5347.2	5412.1
10°	4599.3	4592.3	4627.4	4699.4	4806.5	4904.8	5015.4	5162.8	5366.5	5436.7	5536.8
12.5°	4464.2	4460.7	4497.5	4597.6	4734.5	4890.7	5043.5	5208.5	5456.0	5552.6	5675.4
15°	4543.2	4527.4	4529.1	4599.3	4722.2	4906.5	5113.7	5291.0	5545.5	5668.4	5826.4
17.5°	4773.1	4745.0	4724.0	4736.3	4806.5	4997.8	5220.8	5401.6	5649.1	5793.1	5986.2
20°	5090.9	5075.1	5017.1	4978.5	4994.3	5162.8	5389.3	5557.8	5784.3	5945.8	6152.9
22.5°	5517.4	5478.8	5399.8	5338.4	5291.0	5422.7	5631.6	5777.3	5972.1	6140.6	6356.6
25°	6045.8	5989.7	5865.0	5768.5	5666.7	5801.8	5987.9	6098.5	6230.2	6386.4	6591.8
27.5°	6584.8	6537.4	6398.7	6268.8	6142.4	6226.7	6447.8	6511.0	6497.0	6611.1	6786.7
30°	7158.8	7099.1	6967.5	6827.0	6663.8	6718.2	6916.6	6948.2	6798.9	6893.7	7013.1
32.5°	7764.5	7706.5	7592.4	7429.2	7244.8	7265.9	7320.3	7350.2	7208.0	7262.4	7353.7
35°	8380.6	8326.2	8210.3	8048.8	7913.7	7785.5	7648.6	7768.0	7685.5	7790.8	7783.8
37.5°	8944.1	8889.7	8817.7	8693.1	8461.4	8208.6	7892.6	8040.1	8168.2	8301.6	8278.8
40°	9325.1	9288.2	9305.8	9286.4	8988.0	8487.7	8012.0	8173.5	8522.8	8751.0	8738.7
42.5°	9653.3	9616.5	9718.3	9792.0	9440.9	8745.8	8069.9	8224.4	8749.3	9105.6	9088.1
45°	9799.0	9788.5	9957.0	10190.5	9855.2	9019.6	8219.1	8329.7	8921.3	9377.7	9311.0
47.5°	9625.3	9662.1	9993.9	10388.9	10199.3	9344.4	8524.6	8552.7	9146.0	9672.7	9484.8
50°	9279.4	9360.2	9807.8	10394.2	10450.3	9711.3	8947.6	8877.4	9448.0	9986.9	9576.1
52.5°	8775.6	8859.9	9590.1	10353.8	10594.3	10136.1	9511.1	9411.1	9828.9	10301.1	9591.9
55°	7618.8	7732.9	9091.6	10262.5	10734.7	10522.3	10146.6	9943.0	10320.4	10733.0	9748.1
57.5°	6609.4	6669.0	7876.8	9857.0	10762.8	10806.7	10599.5	10357.3	10808.4	11199.9	9923.7
60°	4850.4	4864.4	5951.1	8155.9	9900.9	10641.7	10562.7	10202.8	10576.7	10826.0	9119.7
62.5°	2740.3	2742.0	3609.3	5443.7	7395.8	8673.8	8722.9	8405.2	8091.0	8164.7	6347.8
65°	1028.7	1125.3	1648.4	2675.3	4264.0	5120.7	5324.3	5398.1	4874.9	4550.2	3403.9
67.5°	688.1	711.0	962.0	1376.3	1897.7	2190.8	2450.6	2457.7	1797.6	1602.7	1341.2
70°	524.9	547.7	756.6	984.8	962.0	888.3	960.2	933.9	965.5	991.8	1019.9
72.5°	391.5	414.3	586.3	695.2	577.6	568.8	644.3	716.2	782.9	811.0	854.9
75°	259.8	277.4	395.0	372.2	319.5	377.4	470.5	542.4	581.1	614.4	647.8
77.5°	165.0	177.3	210.7	170.3	177.3	221.2	273.9	338.8	375.7	409.0	426.6
80°	75.5	73.7	72.0	80.8	100.1	129.9	165.0	203.6	231.7	245.8	256.3
82.5°	29.8	33.4	36.9	43.9	54.4	70.2	93.0	119.4	142.2	145.7	154.5
85°	12.3	14.0	15.8	19.3	24.6	31.6	38.6	54.4	68.5	73.7	79.0
87.5°	0.0	0.0	0.0	0.0	1.8	3.5	5.3	8.8	15.8	17.6	19.3
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: P637786

CATALOG NUMBER: GWS-SA4D-740-U-T3R-W-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5320.8	5320.8	5320.8	5320.8	5320.8	5320.8	5320.8	5320.8	5320.8	5320.8	5320.8
2.5°	5355.9	5333.1	5371.7	5398.1	5422.7	5396.3	5387.5	5364.7	5361.2	5361.2	5373.5
5°	5405.1	5389.3	5429.7	5445.5	5443.7	5385.8	5350.7	5305.0	5282.2	5282.2	5285.7
7.5°	5492.9	5484.1	5506.9	5482.3	5426.2	5308.5	5192.7	5096.1	5031.2	4997.8	5008.4
10°	5638.6	5628.0	5608.7	5517.4	5355.9	5111.9	4874.9	4699.4	4594.1	4534.4	4537.9
12.5°	5780.8	5763.2	5694.8	5492.9	5161.1	4773.1	4462.4	4265.8	4149.9	4079.7	4063.9
15°	5937.0	5891.4	5743.9	5366.5	4843.3	4358.8	4034.1	3821.7	3697.0	3654.9	3653.1
17.5°	6086.2	6005.5	5738.6	5141.8	4462.4	3925.2	3598.7	3467.1	3446.0	3465.3	3470.6
20°	6237.2	6107.3	5680.7	4831.1	4009.5	3493.4	3324.9	3379.3	3458.3	3510.9	3523.2
22.5°	6393.4	6191.6	5549.0	4430.8	3532.0	3202.0	3272.2	3391.6	3489.9	3560.1	3567.1
25°	6569.0	6270.5	5352.4	3941.0	3149.3	3121.2	3259.9	3386.3	3491.6	3572.4	3586.4
27.5°	6669.0	6272.3	5076.8	3437.2	2973.8	3089.6	3230.1	3349.4	3454.8	3542.5	3558.3
30°	6767.3	6224.9	4639.7	3028.2	2922.9	3052.8	3179.2	3289.8	3389.8	3475.8	3495.1
32.5°	6906.0	6181.0	4135.9	2793.0	2893.0	3017.7	3121.2	3219.5	3296.8	3335.4	3345.9
35°	7078.1	6124.8	3600.5	2691.1	2873.7	2989.6	3080.9	3133.5	3033.5	3012.4	3035.2
37.5°	7318.6	6072.2	3066.8	2647.3	2861.4	2979.0	3059.8	2924.6	2801.7	2752.6	2770.1
40°	7578.4	6042.3	2705.2	2612.1	2866.7	2989.6	2972.0	2771.9	2594.6	2491.0	2487.5
42.5°	7799.6	5996.7	2473.5	2589.3	2880.7	3029.9	2852.6	2636.7	2373.4	2312.0	2313.7
45°	7948.8	5880.8	2350.6	2564.7	2893.0	3038.7	2796.5	2450.6	2262.8	2224.2	2222.4
47.5°	8010.2	5670.2	2271.6	2526.1	2891.3	2966.7	2682.4	2373.4	2185.6	2175.0	2182.1
50°	7969.8	5324.3	2190.8	2450.6	2849.1	2891.3	2550.7	2304.9	2132.9	2190.8	2233.0
52.5°	7820.6	4876.7	2094.3	2347.1	2773.6	2805.2	2484.0	2262.8	2094.3	2171.5	2204.9
55°	7782.0	4513.3	1971.4	2211.9	2661.3	2652.5	2413.8	2241.7	2067.9	2038.1	2043.4
57.5°	7731.1	4158.7	1767.8	1969.6	2376.9	2391.0	2347.1	2217.2	1999.5	1990.7	1999.5
60°	6716.4	3187.9	1576.4	1699.3	1952.1	2027.6	2271.6	2171.5	1888.9	1852.0	1850.3
62.5°	4386.9	1931.0	1402.6	1481.6	1590.5	1678.2	2071.5	2039.9	1767.8	1744.9	1760.7
65°	2359.4	1376.3	1276.2	1323.6	1383.3	1450.0	1716.9	1816.9	1597.5	1516.7	1518.5
67.5°	1206.0	1170.9	1181.4	1214.8	1260.4	1293.8	1385.1	1472.8	1362.2	1293.8	1292.0
70°	1032.2	1060.3	1076.1	1095.4	1125.3	1120.0	1128.8	1144.6	1135.8	1102.4	1100.7
72.5°	879.5	923.4	926.9	930.4	940.9	916.4	900.6	874.2	876.0	881.2	883.0
75°	668.8	711.0	721.5	716.2	726.8	695.2	674.1	647.8	616.2	610.9	614.4
77.5°	435.4	468.7	484.5	481.0	486.3	461.7	451.2	423.1	386.2	372.2	372.2
80°	263.3	282.6	294.9	298.4	303.7	286.1	268.6	244.0	228.2	212.4	212.4
82.5°	159.7	172.0	180.8	180.8	186.1	166.8	152.7	135.2	128.1	114.1	114.1
85°	80.8	89.5	93.0	91.3	87.8	72.0	66.7	57.9	54.4	47.4	47.4
87.5°	19.3	24.6	24.6	17.6	17.6	8.8	5.3	1.8	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)