

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: P637676

Luminaire Tested: GWS-SA4D-730-U-T3R-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P637676  
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-730-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) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

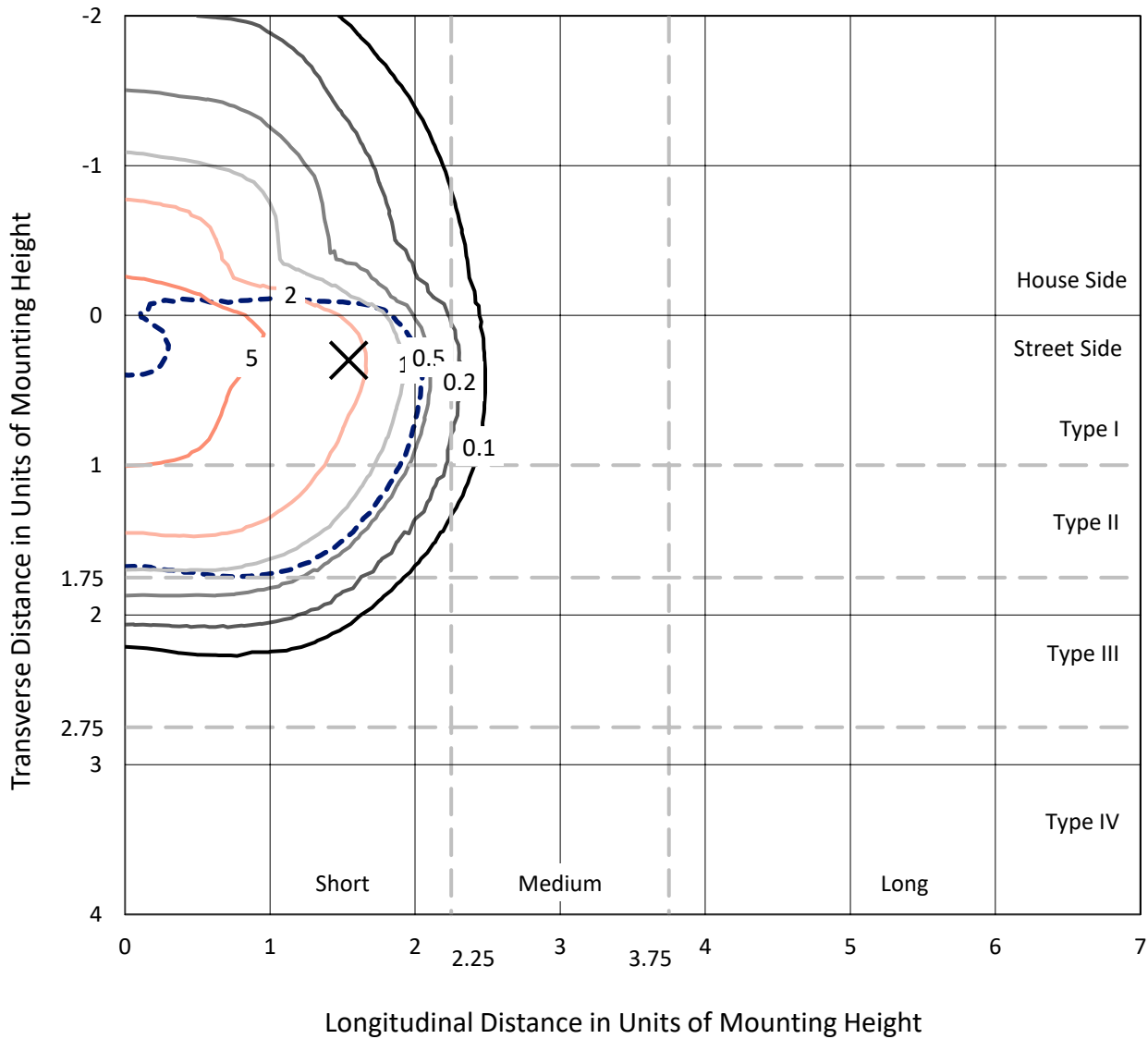
Lumens per Lamp: N/A  
Luminaire Lumens: 19551.2 lumens  
Efficiency: N/A  
Efficacy: 120.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 162.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
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: P637676  
 CATALOG NUMBER: GWS-SA4D-730-U-T3R-W-GRSWH

### Iso-Footcandle Lines of Horizontal Illumination

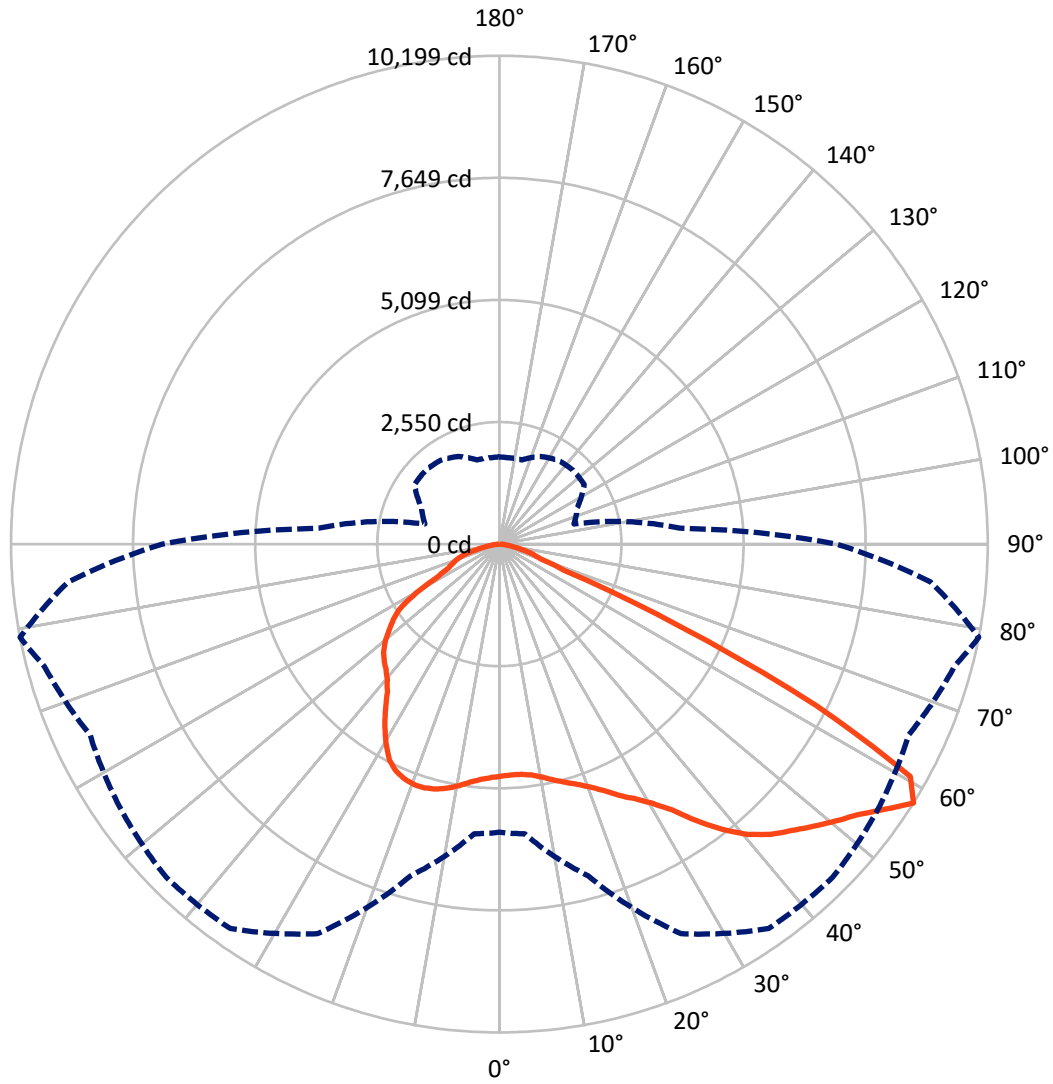
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 fc  
 Type II - Short - N/A

REPORT NUMBER: P637676  
CATALOG NUMBER: GWS-SA4D-730-U-T3R-W-GRSWH

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P637676

CATALOG NUMBER: GWS-SA4D-730-U-T3R-W-GRSWH

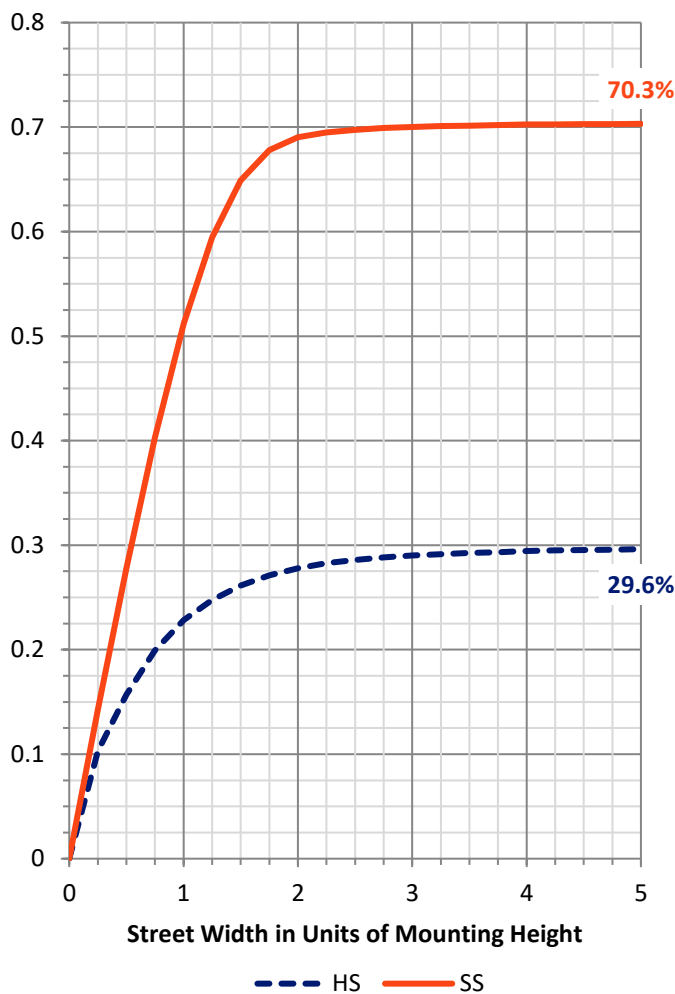
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5811.7	0.0	5811.7
	% Fixture	29.7	0.0	29.7
<b>Street Side</b>	Lumens	13739.5	0.0	13739.5
	% Fixture	70.3	0.0	70.3
<b>Total</b>	Lumens	19551.2	0.0	19551.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	448.7	2.3
10°-20°	1247.0	6.4
20°-30°	2113.7	10.8
30°-40°	3235.2	16.5
40°-50°	4313.9	22.1
50°-60°	4982.2	25.5
60°-70°	2588.9	13.2
70°-80°	550.3	2.8
80°-90°	71.3	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°	19551.2	100.0
0°-180°	19551.2	100.0

**Coefficient of Utilization**



REPORT NUMBER: P637676

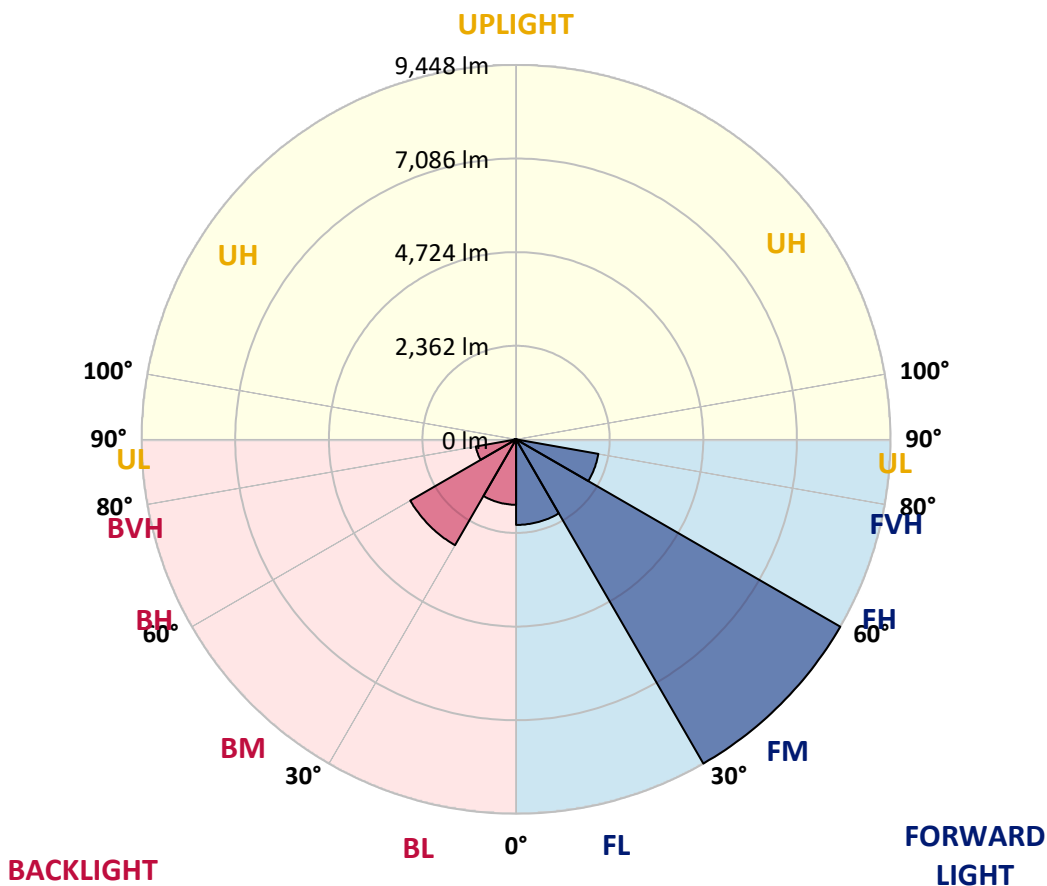
CATALOG NUMBER: GWS-SA4D-730-U-T3R-W-GRSWH

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2158.9	11.0			
FM (30°-60°)	9447.7	48.3			
FH (60°-80°)	2108.1	10.8			G2/5000
FVH (80°-90°)	24.8	0.1			G1/100
BL (0°-30°)	1650.5	8.4	B3/2500		
BM (30°-60°)	3083.6	15.8	B3/5000		
BH (60°-80°)	1031.2	5.3	B3/2500		G3/2500
BVH (80°-90°)	46.4	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: P637676

CATALOG NUMBER: GWS-SA4D-730-U-T3R-W-GRSWH

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	4845.2	4845.2	4845.2	4845.2	4845.2	4845.2	4845.2	4845.2	4845.2	4845.2	4845.2
2.5°	4624.6	4615.0	4618.2	4631.0	4679.0	4714.2	4750.9	4784.5	4816.5	4826.1	4834.0
5°	4460.0	4442.4	4447.2	4468.0	4523.9	4583.1	4648.6	4728.5	4805.3	4830.9	4864.4
7.5°	4343.3	4340.1	4348.1	4380.1	4439.2	4495.2	4579.9	4693.4	4826.1	4869.2	4928.4
10°	4188.2	4181.8	4213.8	4279.3	4376.9	4466.4	4567.1	4701.4	4886.8	4950.7	5041.9
12.5°	4065.1	4061.9	4095.5	4186.6	4311.3	4453.6	4592.7	4742.9	4968.3	5056.2	5168.1
15°	4137.1	4122.7	4124.3	4188.2	4300.1	4468.0	4656.6	4818.1	5049.9	5161.8	5305.6
17.5°	4346.5	4320.9	4301.7	4312.9	4376.9	4551.1	4754.1	4918.8	5144.2	5275.3	5451.1
20°	4635.8	4621.4	4568.7	4533.5	4547.9	4701.4	4907.6	5061.0	5267.3	5414.3	5603.0
22.5°	5024.3	4989.1	4917.2	4861.2	4818.1	4938.0	5128.2	5260.9	5438.3	5591.8	5788.4
25°	5505.4	5454.3	5340.8	5252.9	5160.2	5283.2	5452.7	5553.4	5673.3	5815.6	6002.6
27.5°	5996.2	5953.0	5826.8	5708.5	5593.4	5670.1	5871.5	5929.1	5916.3	6020.2	6180.0
30°	6518.9	6464.6	6344.7	6216.8	6068.1	6117.7	6298.3	6327.1	6191.2	6277.6	6386.3
32.5°	7070.4	7017.7	6913.8	6765.1	6597.3	6616.4	6666.0	6693.2	6563.7	6613.2	6696.4
35°	7631.5	7582.0	7476.5	7329.4	7206.3	7089.6	6964.9	7073.6	6998.5	7094.4	7088.0
37.5°	8144.7	8095.1	8029.6	7916.1	7705.1	7474.9	7187.1	7321.4	7438.1	7559.6	7538.8
40°	8491.6	8458.0	8474.0	8456.4	8184.6	7729.0	7295.8	7442.9	7761.0	7968.8	7957.6
42.5°	8790.5	8756.9	8849.6	8916.8	8597.1	7964.0	7348.6	7489.3	7967.2	8291.7	8275.8
45°	8923.2	8913.6	9067.0	9279.6	8974.3	8213.4	7484.5	7585.2	8123.9	8539.5	8478.8
47.5°	8764.9	8798.5	9100.6	9460.3	9287.6	8509.1	7762.6	7788.2	8328.5	8808.1	8637.0
50°	8450.0	8523.5	8931.2	9465.1	9516.2	8843.2	8147.9	8083.9	8603.5	9094.2	8720.2
52.5°	7991.2	8067.9	8732.9	9428.3	9647.3	9230.1	8661.0	8569.9	8950.3	9380.4	8734.5
55°	6937.8	7041.7	8278.9	9345.2	9775.2	9581.8	9239.7	9054.3	9397.9	9773.6	8876.8
57.5°	6018.6	6072.9	7172.7	8975.9	9800.8	9840.7	9652.1	9431.5	9842.3	10198.8	9036.7
60°	4416.8	4429.6	5419.1	7426.9	9015.9	9690.5	9618.5	9290.8	9631.3	9858.3	8304.5
62.5°	2495.4	2497.0	3286.6	4957.1	6734.7	7898.5	7943.3	7653.9	7367.8	7434.9	5780.4
65°	936.8	1024.7	1501.0	2436.2	3882.9	4663.0	4848.4	4915.6	4439.2	4143.5	3099.6
67.5°	626.6	647.4	876.0	1253.3	1728.0	1995.0	2231.6	2238.0	1636.9	1459.5	1221.3
70°	478.0	498.8	689.0	896.8	876.0	808.9	874.4	850.4	879.2	903.2	928.8
72.5°	356.5	377.3	533.9	633.0	525.9	517.9	586.7	652.2	713.0	738.5	778.5
75°	236.6	252.6	359.7	338.9	290.9	343.7	428.4	494.0	529.1	559.5	589.9
77.5°	150.3	161.5	191.8	155.1	161.5	201.4	249.4	308.5	342.1	372.5	388.5
80°	68.7	67.1	65.5	73.5	91.1	118.3	150.3	185.4	211.0	223.8	233.4
82.5°	27.2	30.4	33.6	40.0	49.6	63.9	84.7	108.7	129.5	132.7	140.7
85°	11.2	12.8	14.4	17.6	22.4	28.8	35.2	49.6	62.3	67.1	71.9
87.5°	0.0	0.0	0.0	0.0	1.6	3.2	4.8	8.0	14.4	16.0	17.6
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: P637676

CATALOG NUMBER: GWS-SA4D-730-U-T3R-W-GRSWH

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4845.2	4845.2	4845.2	4845.2	4845.2	4845.2	4845.2	4845.2	4845.2	4845.2	4845.2
2.5°	4877.2	4856.4	4891.6	4915.6	4938.0	4914.0	4906.0	4885.2	4882.0	4882.0	4893.2
5°	4922.0	4907.6	4944.4	4958.7	4957.1	4904.4	4872.4	4830.9	4810.1	4810.1	4813.3
7.5°	5001.9	4993.9	5014.7	4992.3	4941.2	4834.0	4728.5	4640.6	4581.5	4551.1	4560.7
10°	5134.6	5125.0	5107.4	5024.3	4877.2	4655.0	4439.2	4279.3	4183.4	4129.1	4132.3
12.5°	5264.1	5248.1	5185.7	5001.9	4699.8	4346.5	4063.5	3884.5	3779.0	3715.1	3700.7
15°	5406.3	5364.8	5230.5	4886.8	4410.4	3969.2	3673.5	3480.1	3366.6	3328.2	3326.6
17.5°	5542.2	5468.7	5225.7	4682.2	4063.5	3574.4	3277.1	3157.2	3138.0	3155.6	3160.4
20°	5679.7	5561.4	5172.9	4399.2	3651.1	3181.1	3027.7	3077.2	3149.2	3197.1	3208.3
22.5°	5822.0	5638.1	5053.1	4034.8	3216.3	2915.8	2979.7	3088.4	3177.9	3241.9	3248.3
25°	5981.8	5710.1	4874.0	3588.8	2867.8	2842.2	2968.5	3083.6	3179.5	3253.1	3265.9
27.5°	6072.9	5711.7	4623.0	3130.0	2708.0	2813.5	2941.4	3050.1	3146.0	3225.9	3240.3
30°	6162.5	5668.5	4225.0	2757.5	2661.6	2779.9	2895.0	2995.7	3086.8	3165.2	3182.7
32.5°	6288.7	5628.5	3766.2	2543.3	2634.4	2747.9	2842.2	2931.8	3002.1	3037.3	3046.9
35°	6445.4	5577.4	3278.6	2450.6	2616.8	2722.3	2805.5	2853.4	2762.3	2743.1	2763.9
37.5°	6664.4	5529.4	2792.7	2410.6	2605.7	2712.8	2786.3	2663.2	2551.3	2506.5	2522.5
40°	6901.0	5502.2	2463.4	2378.7	2610.5	2722.3	2706.4	2524.1	2362.7	2268.4	2265.2
42.5°	7102.4	5460.7	2252.4	2357.9	2623.2	2759.1	2597.7	2401.0	2161.3	2105.3	2106.9
45°	7238.3	5355.2	2140.5	2335.5	2634.4	2767.1	2546.5	2231.6	2060.5	2025.4	2023.8
47.5°	7294.2	5163.4	2068.5	2300.3	2632.8	2701.6	2442.6	2161.3	1990.2	1980.6	1987.0
50°	7257.5	4848.4	1995.0	2231.6	2594.5	2632.8	2322.7	2098.9	1942.3	1995.0	2033.4
52.5°	7121.6	4440.8	1907.1	2137.3	2525.7	2554.5	2262.0	2060.5	1907.1	1977.4	2007.8
55°	7086.4	4109.9	1795.2	2014.2	2423.4	2415.4	2198.0	2041.4	1883.1	1855.9	1860.7
57.5°	7040.1	3787.0	1609.8	1793.6	2164.5	2177.2	2137.3	2019.0	1820.8	1812.8	1820.8
60°	6116.1	2903.0	1435.5	1547.4	1777.6	1846.3	2068.5	1977.4	1720.1	1686.5	1684.9
62.5°	3994.8	1758.4	1277.3	1349.2	1448.3	1528.2	1886.3	1857.5	1609.8	1589.0	1603.4
65°	2148.5	1253.3	1162.2	1205.3	1259.7	1320.4	1563.4	1654.5	1454.7	1381.2	1382.8
67.5°	1098.2	1066.2	1075.8	1106.2	1147.8	1178.1	1261.3	1341.2	1240.5	1178.1	1176.5
70°	940.0	965.5	979.9	997.5	1024.7	1019.9	1027.9	1042.3	1034.3	1003.9	1002.3
72.5°	800.9	840.8	844.0	847.2	856.8	834.4	820.1	796.1	797.7	802.5	804.1
75°	609.1	647.4	657.0	652.2	661.8	633.0	613.8	589.9	561.1	556.3	559.5
77.5°	396.4	426.8	441.2	438.0	442.8	420.4	410.8	385.3	351.7	338.9	338.9
80°	239.8	257.4	268.6	271.8	276.6	260.6	244.6	222.2	207.8	193.4	193.4
82.5°	145.5	156.7	164.7	164.7	169.4	151.9	139.1	123.1	116.7	103.9	103.9
85°	73.5	81.5	84.7	83.1	79.9	65.5	60.7	52.8	49.6	43.2	43.2
87.5°	17.6	22.4	22.4	16.0	16.0	8.0	4.8	1.6	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)