

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: P631368

Luminaire Tested: GWS-SA1F-750-U-AFL-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P631368  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-47)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA1F-750-U-AFL-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (16) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

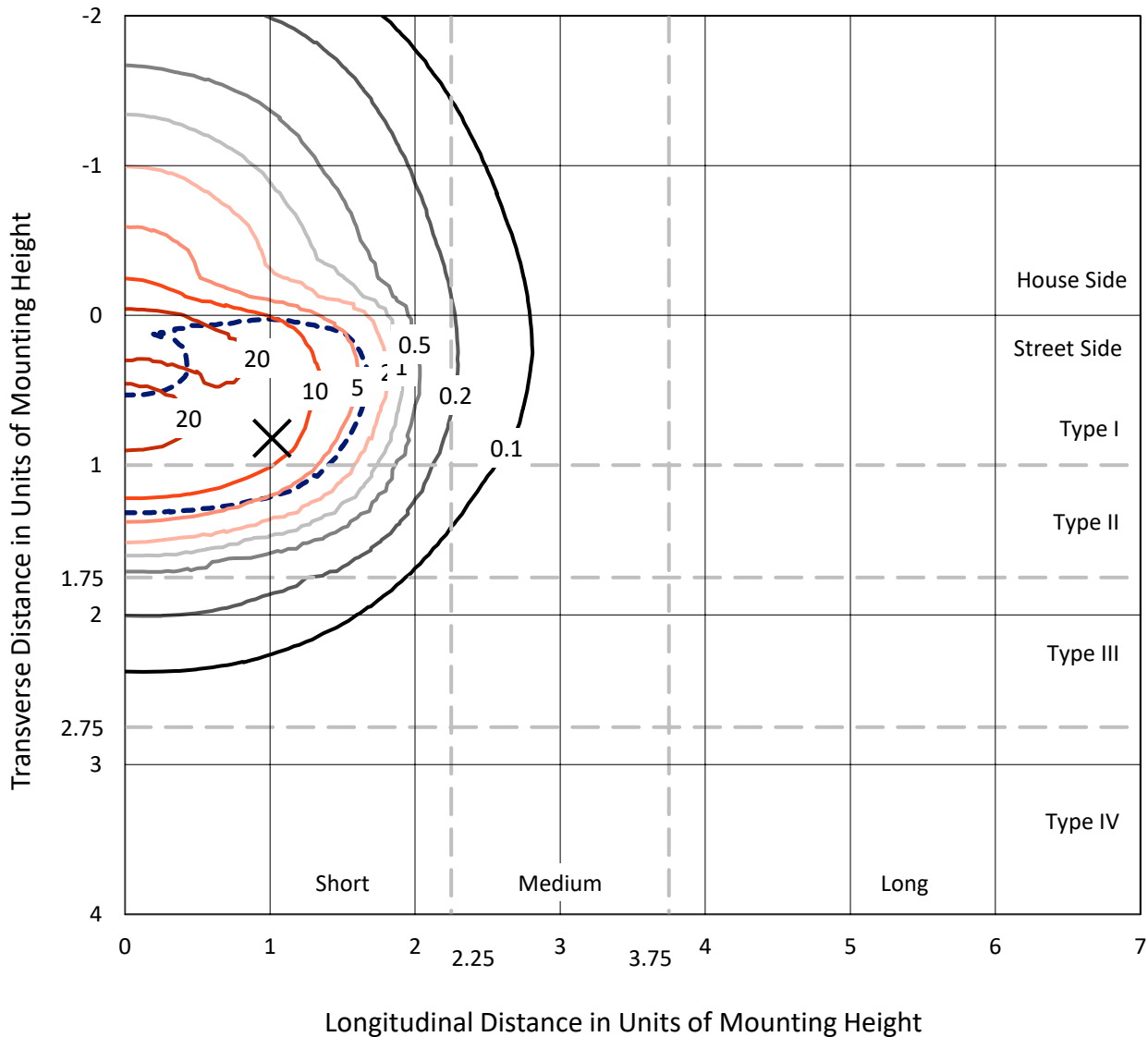
Lumens per Lamp: N/A  
Luminaire Lumens: 7818.2 lumens  
Efficiency: N/A  
Efficacy: 116.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1  
  
Input Watts (W): 67.2  
Input Voltage (V): 120  
Input Current (Ain): 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



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### Iso-Footcandle Lines of Horizontal Illumination

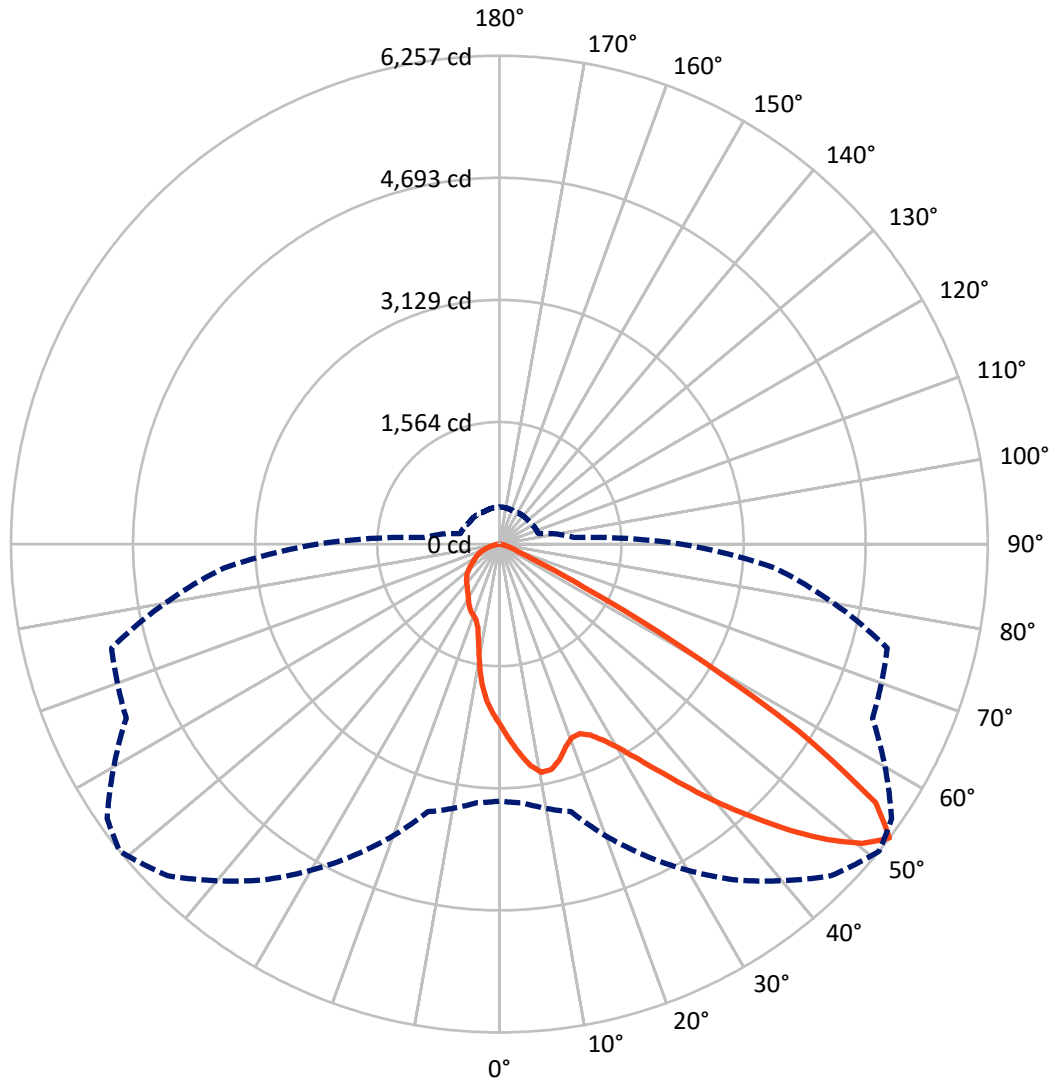
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 28.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 51-Deg Lateral    - - - Horizontal Cone Through 52.5-Deg Vertical

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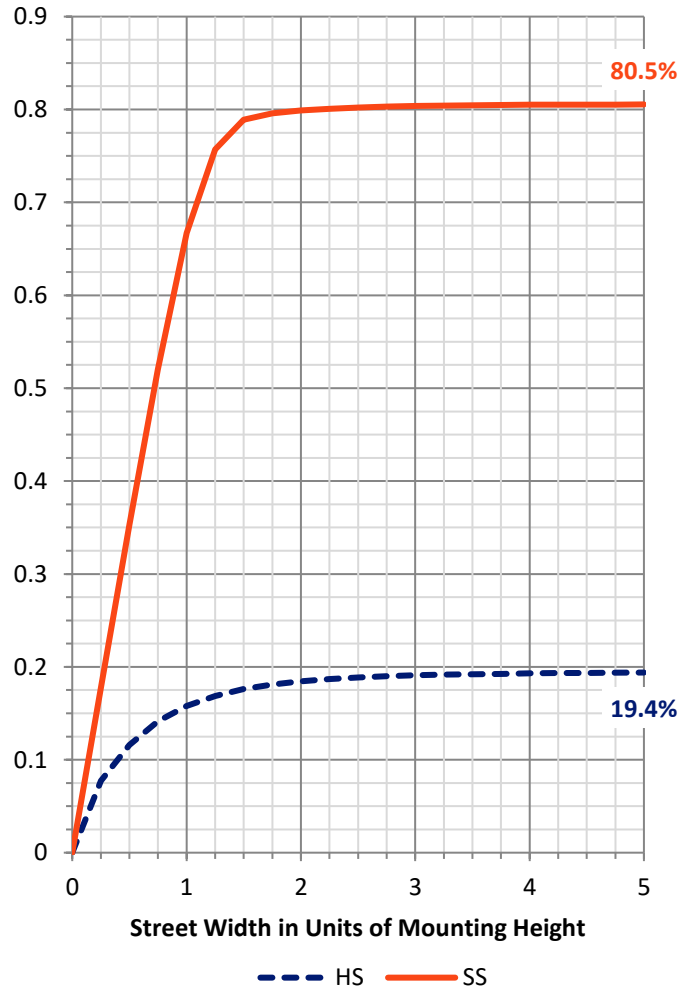
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1523.3	0.0	1523.3
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	6294.9	0.0	6294.9
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	7818.2	0.0	7818.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	217.2	2.8
10°-20°	564.4	7.2
20°-30°	917.7	11.7
30°-40°	1454.4	18.6
40°-50°	2193.5	28.1
50°-60°	1897.6	24.3
60°-70°	430.2	5.5
70°-80°	126.8	1.6
80°-90°	16.3	0.2
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°	7818.2	100.0
0°-180°	7818.2	100.0

**Coefficient of Utilization**



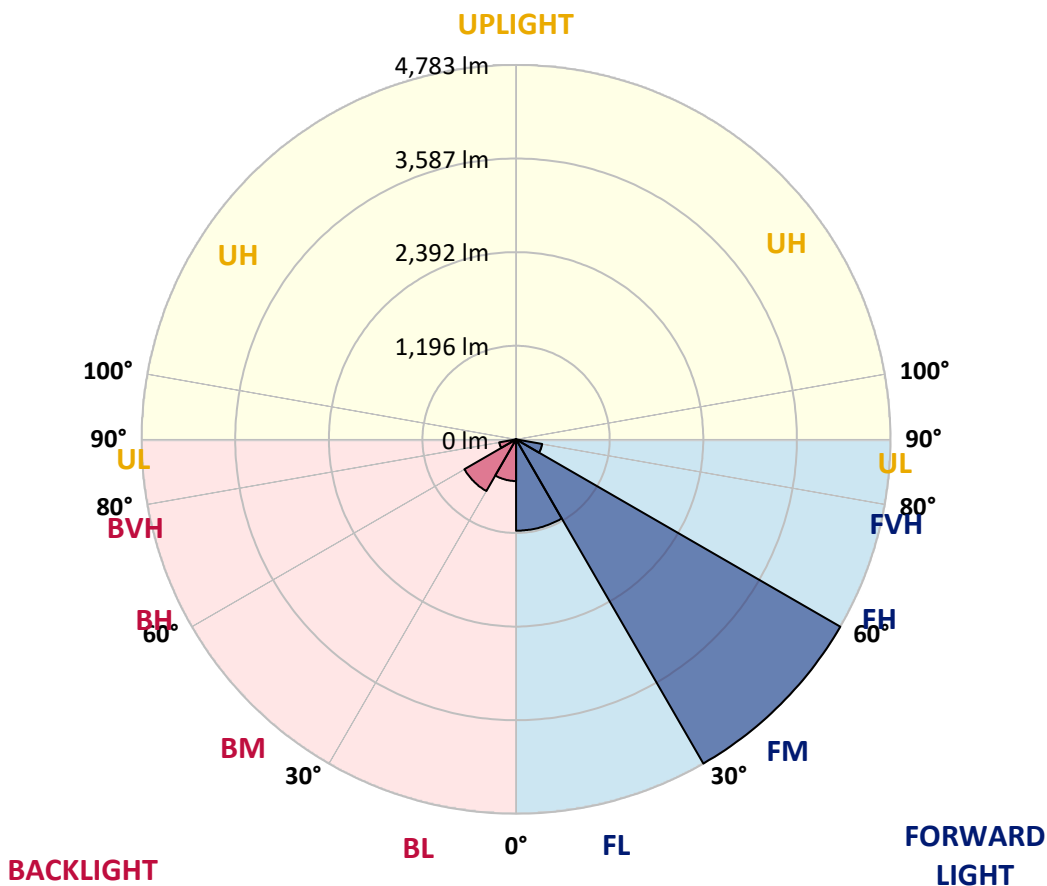
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CATALOG NUMBER: GWS-SA1F-750-U-AFL-W-GRSWH

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1166.9	14.9			
FM (30°-60°)	4783.3	61.2			
FH (60°-80°)	338.6	4.3			G0/660
FVH (80°-90°)	6.2	0.1			G0/10
BL (0°-30°)	532.5	6.8	B2/1000		
BM (30°-60°)	762.2	9.7	B1/1000		
BH (60°-80°)	218.5	2.8	B1/500		G1/500
BVH (80°-90°)	10.2	0.1			G1/100
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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	51°	55°	65°	75°	85°
0°	2327.9	2327.9	2327.9	2327.9	2327.9	2327.9	2327.9	2327.9	2327.9	2327.9	2327.9
2.5°	2594.1	2609.0	2586.1	2577.5	2563.2	2538.5	2510.1	2502.1	2440.9	2400.8	2355.7
5°	2854.9	2862.9	2844.3	2825.8	2790.6	2746.7	2691.8	2680.0	2568.8	2476.8	2381.0
7.5°	2912.9	2909.8	2925.9	2936.4	2932.1	2914.8	2866.0	2843.1	2710.3	2564.5	2423.0
10°	2683.1	2665.8	2725.1	2795.5	2880.2	2977.8	2972.2	2970.4	2854.9	2682.5	2476.8
12.5°	2378.5	2369.9	2418.1	2506.4	2666.4	2882.7	2963.6	3026.6	2985.2	2794.9	2536.7
15°	2204.3	2201.2	2234.0	2297.6	2424.9	2697.9	2870.9	2995.7	3097.0	2915.4	2600.3
17.5°	2172.8	2174.7	2185.8	2222.2	2313.7	2538.5	2738.7	2912.9	3184.1	3047.6	2680.0
20°	2264.9	2277.2	2258.1	2263.6	2313.0	2481.1	2648.5	2829.5	3239.7	3180.4	2765.9
22.5°	2469.3	2465.0	2423.0	2398.3	2398.9	2516.3	2638.6	2790.6	3276.2	3309.6	2843.7
25°	2701.0	2696.1	2646.0	2591.1	2556.5	2612.1	2709.7	2832.0	3308.9	3427.6	2906.1
27.5°	2974.7	2959.3	2903.7	2833.2	2756.6	2780.7	2846.8	2943.8	3359.6	3543.7	2947.5
30°	3239.7	3257.7	3178.0	3094.6	3013.6	2998.8	3037.1	3124.8	3462.8	3679.6	2996.9
32.5°	3591.3	3585.1	3496.7	3388.0	3272.5	3261.4	3291.6	3371.9	3648.1	3867.4	3072.3
35°	4016.9	4018.2	3892.8	3745.7	3581.4	3551.7	3602.4	3680.2	3924.3	4122.0	3191.6
37.5°	4459.3	4457.4	4348.1	4181.3	3957.0	3915.0	3973.1	4031.1	4269.6	4468.5	3376.9
40°	4769.4	4781.8	4730.5	4642.8	4430.2	4327.7	4379.0	4419.1	4645.2	4876.3	3620.9
42.5°	4945.5	4964.0	4975.1	5027.7	4915.8	4806.5	4787.9	4809.0	4980.7	5255.0	3850.1
45°	4983.2	5007.9	5088.8	5283.4	5326.7	5295.8	5235.2	5184.6	5230.9	5523.7	4000.3
47.5°	4817.0	4860.2	5033.2	5373.6	5626.3	5723.3	5656.0	5578.7	5375.5	5592.9	3984.8
50°	4158.4	4209.1	4598.9	5189.5	5668.9	6022.3	6028.5	5914.2	5358.2	5393.4	3790.8
52.5°	3292.3	3326.8	3549.9	4399.3	5250.7	6010.0	6257.1	6134.7	5274.8	5143.8	3548.0
55°	1967.7	2023.3	2231.5	2902.4	4090.4	5326.7	5853.0	5912.3	5234.0	4934.4	3382.5
57.5°	664.1	691.3	890.2	1281.9	2410.7	3900.2	4522.3	4763.2	4751.5	4614.3	3059.3
60°	316.3	322.5	362.6	486.2	965.0	2038.1	2676.9	2954.9	3208.2	3233.6	1903.4
62.5°	240.9	244.6	265.0	291.6	388.0	858.7	1226.9	1439.5	1537.7	1319.6	693.2
65°	201.4	204.5	219.9	236.6	263.8	371.9	470.8	543.0	489.3	381.2	330.5
67.5°	168.0	170.5	182.3	200.2	218.7	249.0	261.3	268.7	281.7	316.3	304.0
70°	131.6	134.1	146.4	161.9	179.8	187.2	198.9	206.3	232.3	276.8	275.5
72.5°	101.3	104.4	111.2	121.1	135.9	143.3	156.3	165.0	179.8	215.6	230.4
75°	74.1	76.0	82.2	85.3	87.1	85.3	98.2	108.1	127.9	141.5	145.2
77.5°	30.3	34.0	32.7	32.7	38.9	47.0	53.7	59.9	73.5	81.5	82.2
80°	12.4	13.6	16.1	17.9	21.6	27.8	32.1	34.6	40.8	45.7	49.4
82.5°	7.4	8.0	9.3	9.9	12.4	16.1	18.5	20.4	25.3	30.3	32.1
85°	3.7	3.7	4.3	4.9	6.2	7.4	8.6	9.9	13.0	16.1	17.9
87.5°	0.6	0.6	0.6	1.2	1.9	2.5	3.1	3.7	4.3	4.9	6.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2327.9	2327.9	2327.9	2327.9	2327.9	2327.9	2327.9	2327.9	2327.9	2327.9	2327.9
2.5°	2329.1	2295.7	2256.8	2225.9	2190.1	2163.5	2125.8	2102.4	2080.1	2061.6	2048.0
5°	2331.6	2275.4	2194.4	2122.8	2048.6	1978.2	1905.9	1847.2	1794.7	1750.8	1747.1
7.5°	2345.8	2264.9	2138.2	2012.8	1868.2	1728.6	1589.0	1475.3	1388.8	1343.7	1334.4
10°	2369.9	2263.6	2080.7	1880.6	1634.1	1409.2	1243.6	1157.1	1107.1	1089.2	1083.0
12.5°	2395.2	2260.5	2007.2	1694.0	1351.7	1154.7	1063.9	1053.3	1062.6	1063.9	1063.2
15°	2426.1	2258.7	1914.6	1475.3	1145.4	1036.7	1042.8	1065.1	1086.7	1091.7	1091.7
17.5°	2463.8	2254.4	1788.5	1261.5	1016.3	1013.8	1046.6	1076.2	1096.6	1100.3	1100.3
20°	2503.3	2243.2	1633.5	1087.3	963.8	999.6	1034.8	1057.7	1071.9	1076.8	1077.4
22.5°	2530.5	2213.6	1454.9	958.2	931.0	972.4	997.7	1021.2	1021.2	1008.9	1005.2
25°	2536.1	2149.9	1261.5	869.9	892.1	930.4	956.4	942.8	917.4	907.5	906.9
27.5°	2515.7	2057.3	1070.6	806.8	845.1	883.5	879.1	859.4	848.2	838.4	842.1
30°	2491.0	1946.1	905.1	755.0	790.8	828.5	813.6	806.8	798.8	787.7	790.2
32.5°	2474.3	1821.9	777.8	714.8	754.3	760.5	771.0	770.4	763.0	742.0	740.7
35°	2479.2	1696.5	692.6	682.1	724.1	721.6	741.4	737.7	686.4	657.3	655.5
37.5°	2518.8	1576.0	642.5	656.1	675.9	691.3	708.6	664.1	646.2	627.7	628.9
40°	2594.1	1464.2	615.3	641.9	646.8	669.7	629.5	628.9	620.9	604.2	603.6
42.5°	2679.4	1369.7	596.8	635.1	628.3	632.6	590.0	594.9	594.3	583.8	580.7
45°	2731.3	1282.6	582.0	609.8	611.6	568.4	555.4	561.0	564.1	558.5	557.9
47.5°	2677.5	1182.5	566.5	570.8	586.9	539.3	523.3	523.9	529.5	530.1	527.6
50°	2526.8	1070.6	548.0	537.5	527.0	509.1	494.2	491.2	496.7	502.3	504.1
52.5°	2332.2	963.8	517.1	501.0	476.3	476.3	469.5	459.6	467.1	474.5	476.9
55°	2189.5	884.7	473.2	455.3	428.1	437.4	436.2	427.5	437.4	443.0	444.8
57.5°	1897.3	711.1	416.4	410.8	388.0	399.1	401.6	390.4	385.5	386.7	388.6
60°	1126.2	459.0	375.6	375.0	354.6	367.6	375.0	363.9	349.1	350.9	353.4
62.5°	505.4	350.9	324.3	321.9	321.3	337.9	346.0	335.5	314.5	316.3	318.8
65°	318.2	303.3	281.7	281.7	291.6	305.8	312.0	303.3	279.2	276.2	278.6
67.5°	295.3	282.3	260.1	255.8	260.7	272.4	273.1	256.4	242.2	239.7	239.7
70°	265.0	255.2	233.5	224.9	223.0	222.4	220.6	216.2	207.0	204.5	205.7
72.5°	219.3	212.5	198.9	189.7	184.7	184.1	176.7	173.0	165.0	163.7	163.1
75°	145.2	147.0	147.0	145.8	141.5	139.6	131.6	127.9	118.6	114.9	114.3
77.5°	85.9	87.7	90.2	90.8	90.2	90.2	82.8	78.5	69.2	64.3	63.0
80°	52.5	53.7	55.0	56.8	54.4	52.5	45.7	41.4	37.1	34.0	33.4
82.5°	34.0	35.2	35.8	37.1	35.8	33.4	27.8	25.3	22.2	19.8	19.2
85°	19.2	19.8	21.0	21.0	19.2	17.3	14.2	12.4	10.5	9.3	9.3
87.5°	6.8	6.8	6.8	7.4	6.2	5.6	3.7	2.5	1.9	1.9	1.9
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)