

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: P638313

Luminaire Tested: GWS-SA4E-750-U-SL4-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P638313  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-35)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4E-750-U-SL4-W  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS  
Light Source: (64) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

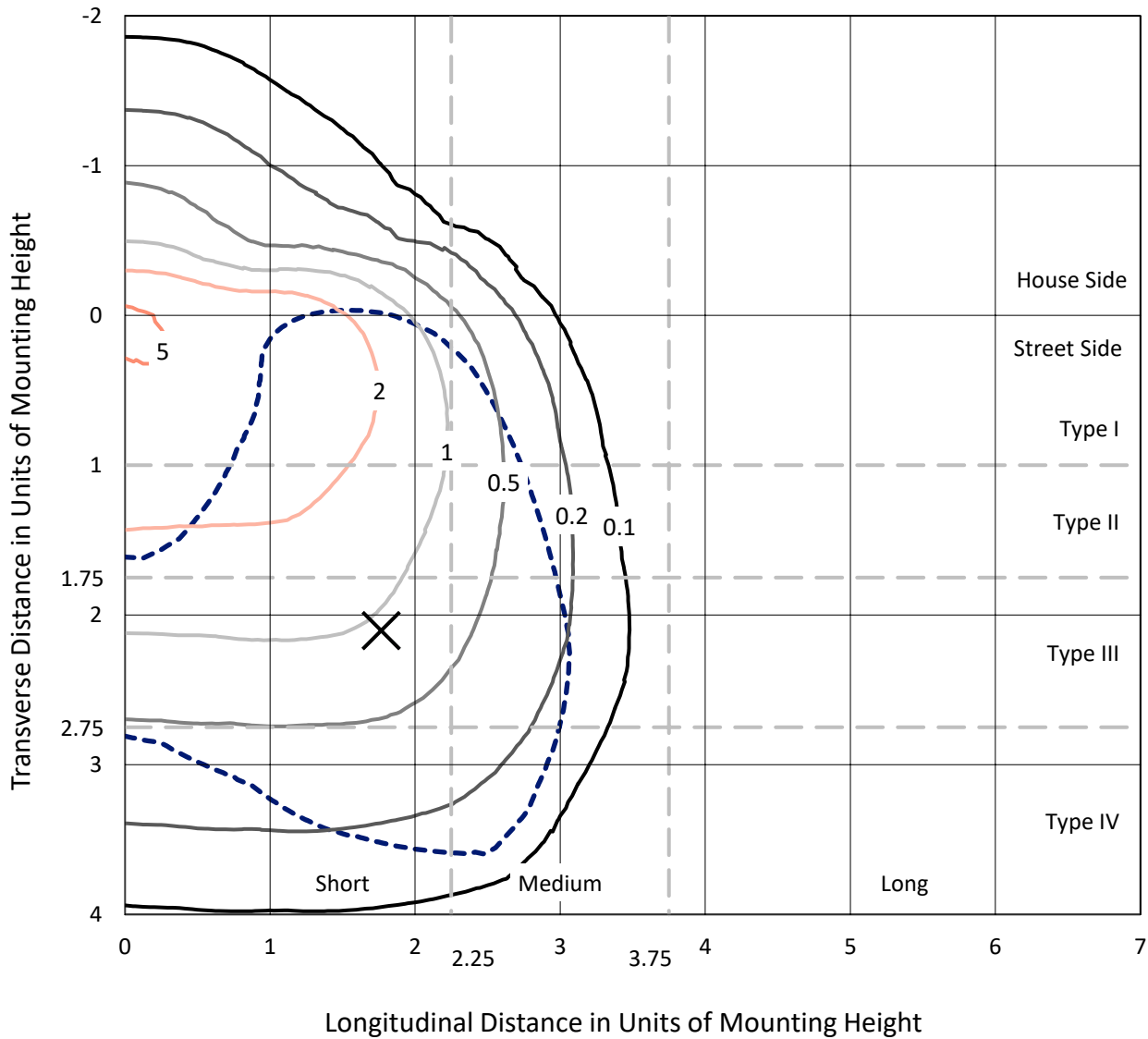
Lumens per Lamp: N/A  
Luminaire Lumens: 30064 lumens  
Efficiency: N/A  
Efficacy: 148.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 202.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

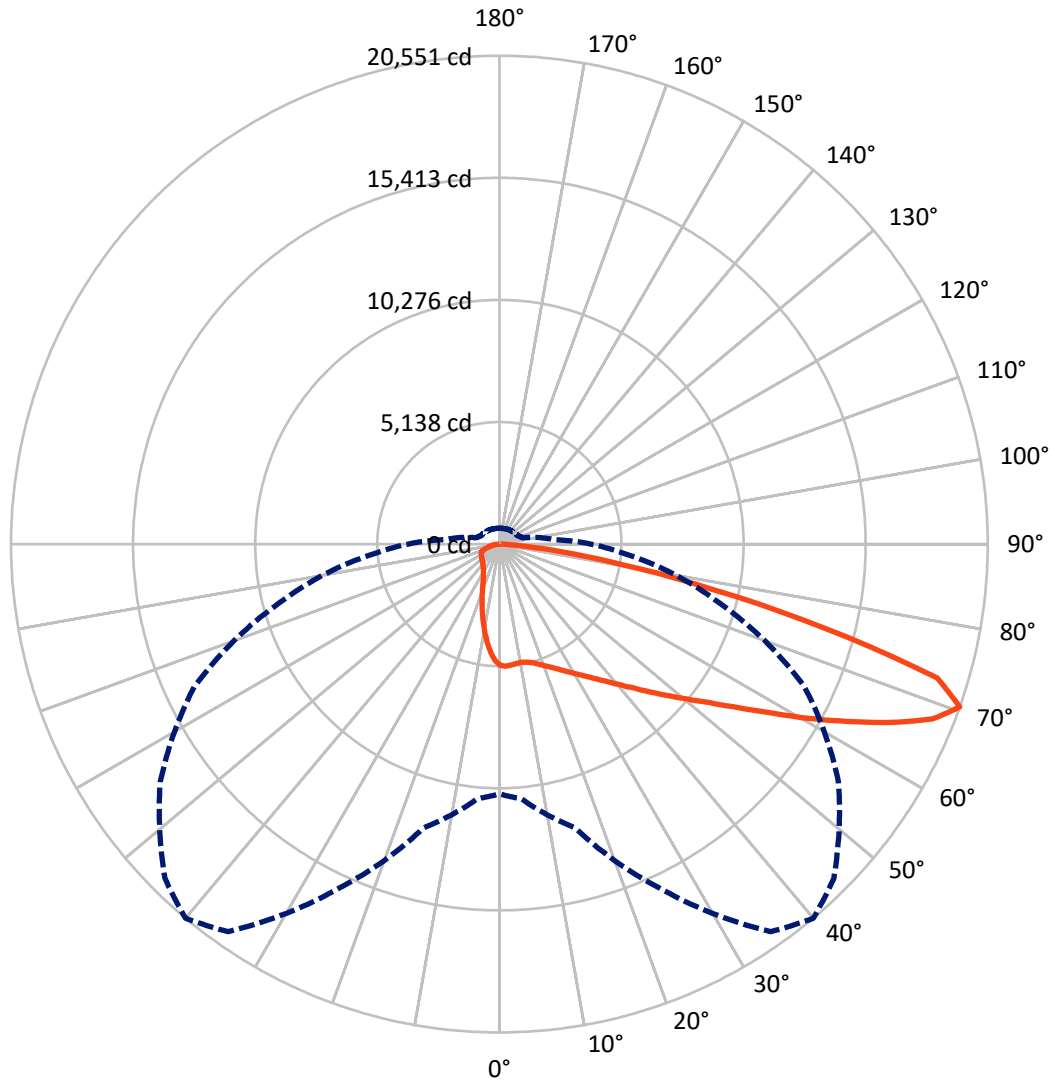
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.7 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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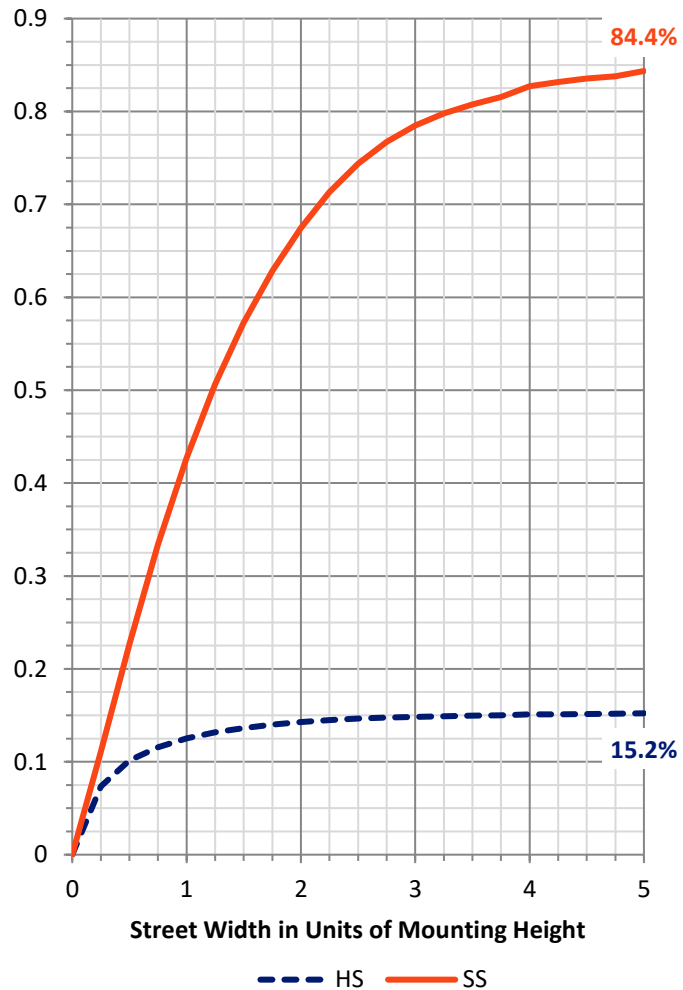
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4630.6	0.0	4630.6
	% Fixture	15.4	0.0	15.4
<b>Street Side</b>	Lumens	25433.4	0.0	25433.4
	% Fixture	84.6	0.0	84.6
<b>Total</b>	Lumens	30064.0	0.0	30064.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	451.0	1.5
10°-20°	1175.6	3.9
20°-30°	1845.9	6.1
30°-40°	2775.3	9.2
40°-50°	4283.8	14.2
50°-60°	6361.7	21.2
60°-70°	8018.9	26.7
70°-80°	4637.3	15.4
80°-90°	514.6	1.7
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°	30064.0	100.0
0°-180°	30064.0	100.0

**Coefficient of Utilization**



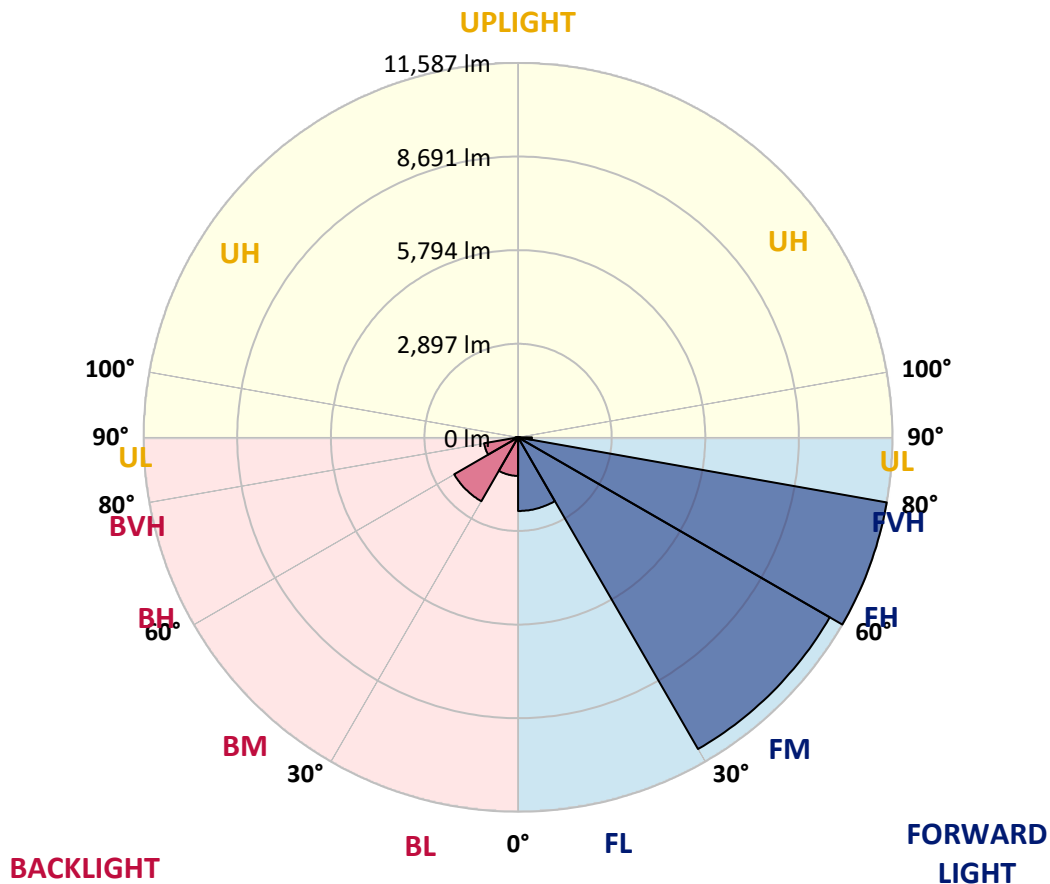
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2279.1	7.6			
FM (30°-60°)	11138.3	37.0			
FH (60°-80°)	11587.4	38.5			G4/12000
FVH (80°-90°)	428.6	1.4			G3/500
BL (0°-30°)	1193.4	4.0	B3/2500		
BM (30°-60°)	2282.5	7.6	B2/2500		
BH (60°-80°)	1068.8	3.6	B3/2500		G3/2500
BVH (80°-90°)	86.0	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	5105.2	5105.2	5105.2	5105.2	5105.2	5105.2	5105.2	5105.2	5105.2	5105.2	5105.2
2.5°	5136.6	5145.6	5152.3	5161.3	5156.8	5143.4	5154.6	5154.6	5129.9	5103.0	5078.3
5°	5143.4	5154.6	5152.3	5150.1	5132.1	5109.7	5109.7	5096.2	5053.6	5011.0	4970.6
7.5°	5129.9	5127.7	5125.4	5118.7	5098.5	5073.8	5069.3	5042.4	4986.3	4927.9	4869.6
10°	5069.3	5067.1	5073.8	5089.5	5085.0	5062.6	5062.6	5037.9	4972.8	4901.0	4824.7
12.5°	5019.9	5019.9	5046.9	5089.5	5105.2	5096.2	5098.5	5080.5	5006.5	4921.2	4831.4
15°	5026.7	5028.9	5087.3	5156.8	5186.0	5179.3	5181.5	5161.3	5078.3	4993.0	4871.8
17.5°	5071.6	5082.8	5183.8	5280.2	5318.4	5309.4	5293.7	5260.1	5165.8	5069.3	4921.2
20°	5165.8	5183.8	5313.9	5435.1	5480.0	5459.8	5432.8	5365.5	5262.3	5156.8	4975.1
22.5°	5352.1	5363.3	5506.9	5625.8	5661.7	5637.1	5583.2	5486.7	5367.8	5257.8	5040.1
25°	5614.6	5628.1	5765.0	5874.9	5865.9	5836.8	5762.7	5643.8	5502.4	5385.7	5134.4
27.5°	5926.5	5949.0	6083.6	6171.1	6112.8	6070.2	5987.1	5843.5	5684.2	5578.7	5278.0
30°	6267.6	6276.6	6391.1	6478.6	6388.8	6330.5	6229.5	6074.6	5931.0	5852.5	5493.4
32.5°	6597.5	6606.5	6705.2	6754.6	6660.3	6617.7	6530.2	6366.4	6265.4	6222.7	5814.3
35°	6945.3	6943.1	7023.9	7066.5	6970.0	6952.1	6862.3	6736.6	6718.7	6774.8	6283.3
37.5°	7293.2	7273.0	7315.6	7371.7	7317.8	7335.8	7277.5	7234.8	7304.4	7450.2	6907.2
40°	7571.4	7571.4	7616.3	7685.9	7703.8	7782.4	7748.7	7804.8	8029.2	8377.0	7679.1
42.5°	7818.3	7820.5	7914.8	8022.5	8152.6	8273.8	8300.7	8446.6	8911.1	9456.4	8648.6
45°	8076.3	8078.6	8206.5	8363.6	8639.6	8870.7	8924.6	9252.2	9916.5	10580.7	9701.0
47.5°	8374.8	8350.1	8527.4	8789.9	9182.6	9514.8	9653.9	10118.4	10957.7	11774.5	10692.9
50°	8711.4	8659.8	8857.3	9310.6	9795.3	10250.8	10484.2	11016.0	12075.2	12876.4	11626.4
52.5°	9090.6	9061.5	9267.9	9820.0	10560.5	11085.6	11402.0	12099.9	13161.3	13973.7	12367.0
55°	9561.9	9492.3	9790.8	10493.2	11458.1	12126.8	12501.6	13172.6	14348.5	14970.1	12932.5
57.5°	10078.0	10001.7	10401.2	11334.7	12625.0	13358.8	13827.8	14379.9	15466.0	15733.0	13264.6
60°	10634.5	10609.9	11083.4	12322.1	14016.3	14869.1	15207.9	15708.3	16437.7	16175.1	13181.5
62.5°	11143.9	11135.0	11823.9	13392.5	15490.7	16428.7	16698.0	16830.4	17137.8	16145.9	12521.8
65°	11680.3	11756.6	12687.9	14633.4	17180.4	18100.5	18212.7	17876.1	17373.4	15380.7	11170.9
67.5°	11747.6	11895.7	13230.9	15795.9	18782.7	19651.1	19561.4	18273.3	16677.8	13251.1	8756.3
70°	10506.6	10764.7	12364.7	15973.1	19911.4	20551.0	19902.5	17418.3	14153.2	9600.0	5506.9
72.5°	8778.7	9000.9	10414.6	13621.4	18455.1	19269.7	18392.2	14743.4	10001.7	5506.9	2805.1
75°	6833.1	7091.2	8395.0	10827.5	13816.6	14142.0	13702.2	10282.2	5497.9	2271.0	1274.6
77.5°	4169.4	4355.7	5370.0	7335.8	9667.4	9180.4	7780.1	5765.0	2412.4	1088.4	787.7
80°	1844.6	1959.1	2645.7	3940.6	5585.4	5280.2	4162.7	2461.7	1319.5	691.2	549.8
82.5°	989.6	1063.7	1303.8	1559.6	2452.7	2564.9	2080.2	1418.2	709.1	395.0	314.2
85°	435.3	478.0	592.4	565.5	805.6	792.1	798.9	973.9	338.9	181.8	204.2
87.5°	0.0	0.0	0.0	0.0	2.2	2.2	24.7	130.2	33.7	53.9	47.1
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°	5105.2	5105.2	5105.2	5105.2	5105.2	5105.2	5105.2	5105.2	5105.2	5105.2	5105.2
2.5°	5051.4	5011.0	4999.7	4986.3	4961.6	4919.0	4887.5	4851.6	4835.9	4818.0	4820.2
5°	4925.7	4876.3	4829.2	4768.6	4692.3	4607.0	4548.7	4481.4	4445.5	4411.8	4420.8
7.5°	4818.0	4741.7	4645.2	4517.3	4380.4	4227.8	4104.4	4007.9	3942.8	3897.9	3920.4
10°	4750.7	4660.9	4492.6	4283.9	4052.8	3819.4	3642.1	3476.0	3372.8	3292.0	3287.5
12.5°	4737.2	4620.5	4375.9	4072.9	3738.6	3426.7	3166.4	2941.9	2805.1	2704.1	2742.2
15°	4750.7	4602.5	4274.9	3877.7	3455.8	3034.0	2710.8	2452.7	2288.9	2196.9	2190.2
17.5°	4766.4	4584.6	4160.5	3666.8	3159.6	2677.2	2302.4	2028.6	1860.3	1768.3	1770.6
20°	4779.8	4557.7	4025.8	3435.6	2858.9	2345.0	1956.8	1696.5	1546.1	1478.8	1490.0
22.5°	4802.3	4530.7	3882.2	3188.8	2551.5	2024.1	1683.0	1472.1	1382.3	1337.5	1339.7
25°	4844.9	4515.0	3734.1	2919.5	2248.5	1768.3	1494.5	1353.2	1297.1	1270.1	1267.9
27.5°	4932.4	4528.5	3579.3	2659.2	1974.8	1573.1	1373.4	1281.4	1243.2	1225.3	1223.0
30°	5078.3	4582.3	3444.6	2394.4	1739.1	1420.5	1290.3	1234.2	1211.8	1196.1	1193.8
32.5°	5300.4	4683.3	3298.8	2147.6	1548.4	1308.3	1225.3	1196.1	1180.4	1171.4	1171.4
35°	5637.1	4867.3	3155.1	1932.1	1400.3	1220.8	1173.6	1162.4	1149.0	1144.5	1149.0
37.5°	6121.8	5161.3	3025.0	1743.6	1294.8	1153.4	1117.5	1122.0	1110.8	1117.5	1124.3
40°	6736.6	5554.0	2915.0	1588.8	1216.3	1104.1	1068.2	1083.9	1077.1	1083.9	1095.1
42.5°	7515.3	6041.0	2832.0	1467.6	1160.2	1063.7	1030.0	1045.7	1041.2	1050.2	1061.4
45°	8383.8	6682.8	2793.8	1382.3	1119.8	1034.5	998.6	1009.8	1005.3	1012.1	1023.3
47.5°	9216.3	7266.2	2827.5	1333.0	1086.1	1009.8	971.7	976.2	973.9	971.7	978.4
50°	9934.4	7730.7	2924.0	1317.3	1063.7	985.1	949.2	951.5	944.7	931.3	935.8
52.5°	10520.1	8103.3	2982.3	1317.3	1052.5	958.2	924.5	926.8	913.3	895.4	897.6
55°	10906.1	8253.6	2935.2	1315.0	1048.0	935.8	899.9	902.1	888.6	866.2	868.4
57.5°	11016.0	8107.7	2737.7	1290.3	1043.5	917.8	875.2	879.7	870.7	846.0	846.0
60°	10708.6	7573.7	2376.4	1234.2	1032.3	906.6	857.2	864.0	859.5	834.8	834.8
62.5°	9903.0	6624.4	1945.6	1149.0	1000.8	893.1	841.5	855.0	866.2	852.7	850.5
65°	8395.0	5307.2	1582.1	1054.7	960.5	870.7	819.1	852.7	877.4	895.4	895.4
67.5°	6299.0	3799.2	1290.3	956.0	899.9	825.8	789.9	821.3	839.3	850.5	857.2
70°	3839.6	2235.1	1016.6	841.5	812.3	758.5	731.6	700.1	675.5	671.0	673.2
72.5°	1878.3	1279.1	825.8	715.9	693.4	644.0	583.5	570.0	558.8	552.0	549.8
75°	1034.5	890.9	682.2	594.7	554.3	493.7	480.2	457.8	453.3	444.3	446.6
77.5°	731.6	702.4	563.3	482.5	421.9	390.5	397.2	381.5	381.5	374.8	372.5
80°	549.8	552.0	433.1	352.3	311.9	300.7	307.4	307.4	302.9	300.7	298.5
82.5°	347.8	392.7	291.7	226.6	222.2	224.4	222.2	219.9	224.4	217.7	215.4
85°	240.1	282.8	177.3	134.6	134.6	132.4	136.9	134.6	139.1	132.4	132.4
87.5°	53.9	125.7	65.1	40.4	42.6	40.4	42.6	44.9	49.4	51.6	51.6
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)