

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: P640346

Luminaire Tested: GWS-SA5D-760-U-SL3-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640346  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-31)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5D-760-U-SL3-W  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS  
Light Source: (80) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

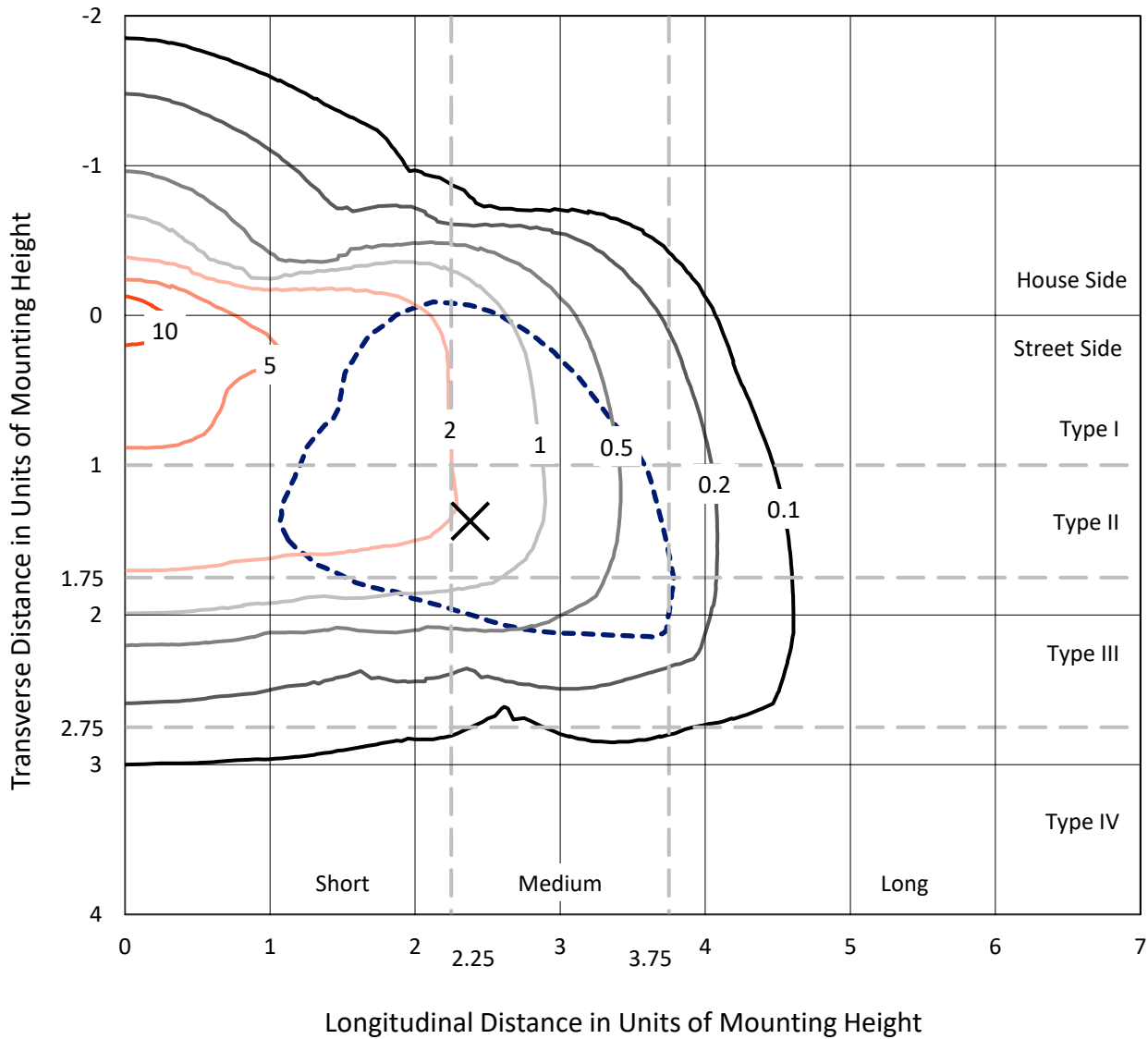
Lumens per Lamp: N/A  
Luminaire Lumens: 29696.6 lumens  
Efficiency: N/A  
Efficacy: 145.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 204.6  
Input Voltage (V): 120  
Input Current (Ain): 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

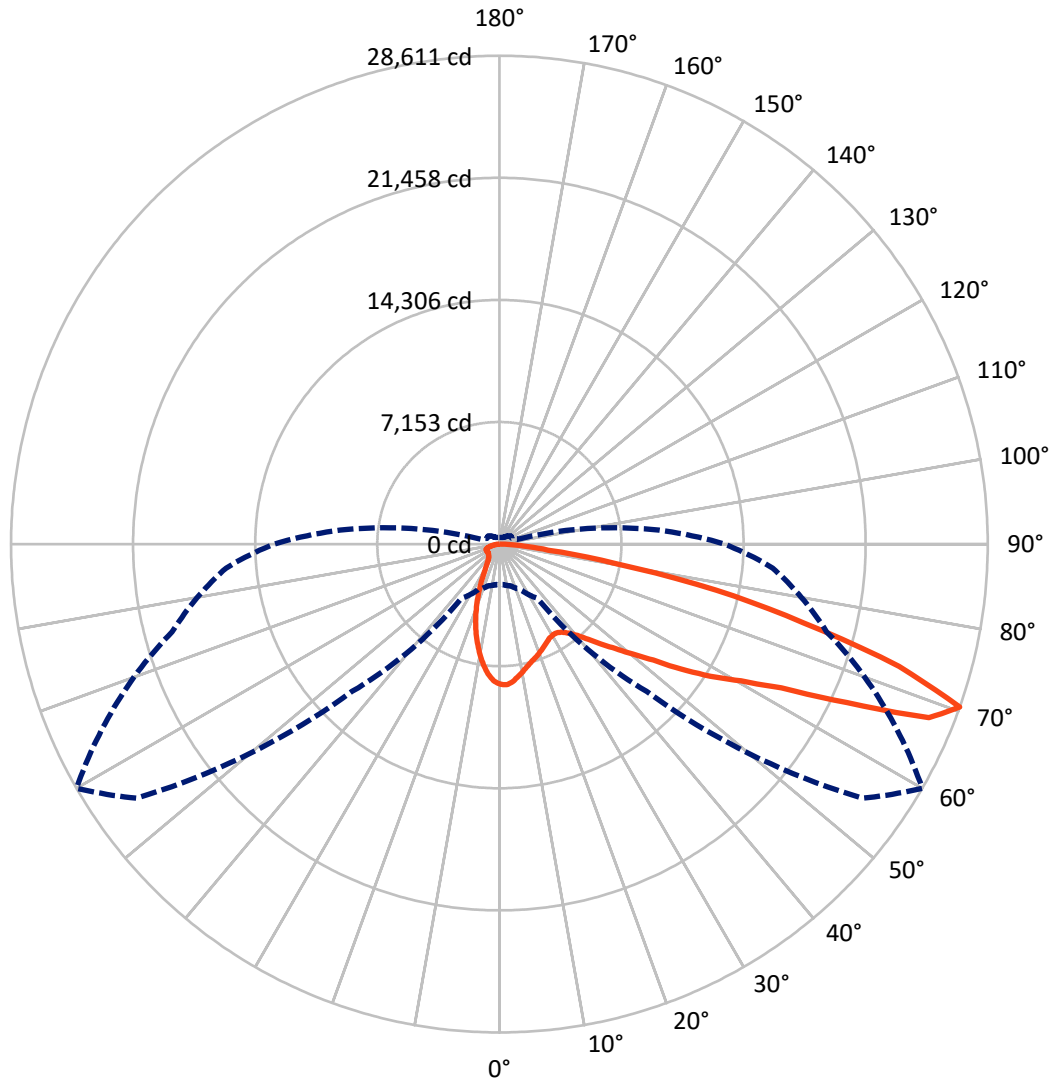
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.1 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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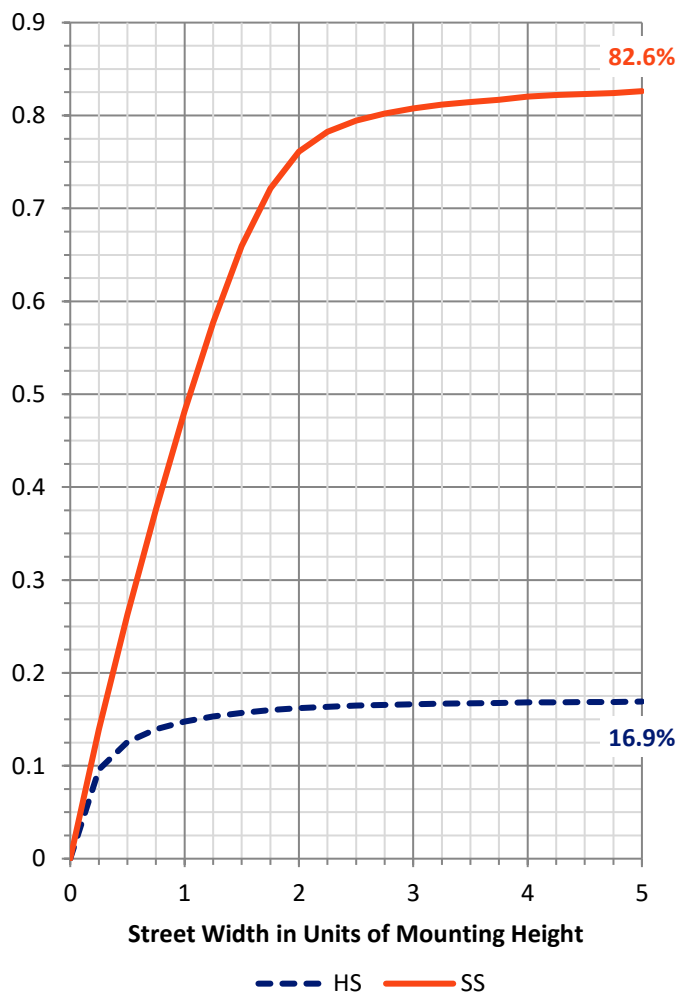
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5078.8	0.0	5078.8
	% Fixture	17.1	0.0	17.1
<b>Street Side</b>	Lumens	24617.8	0.0	24617.8
	% Fixture	82.9	0.0	82.9
<b>Total</b>	Lumens	29696.6	0.0	29696.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	708.3	2.4
10°-20°	1586.8	5.3
20°-30°	2032.2	6.8
30°-40°	2670.8	9.0
40°-50°	3874.9	13.0
50°-60°	6045.8	20.4
60°-70°	7915.1	26.7
70°-80°	4376.8	14.7
80°-90°	485.7	1.6
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°	29696.6	100.0
0°-180°	29696.6	100.0

**Coefficient of Utilization**



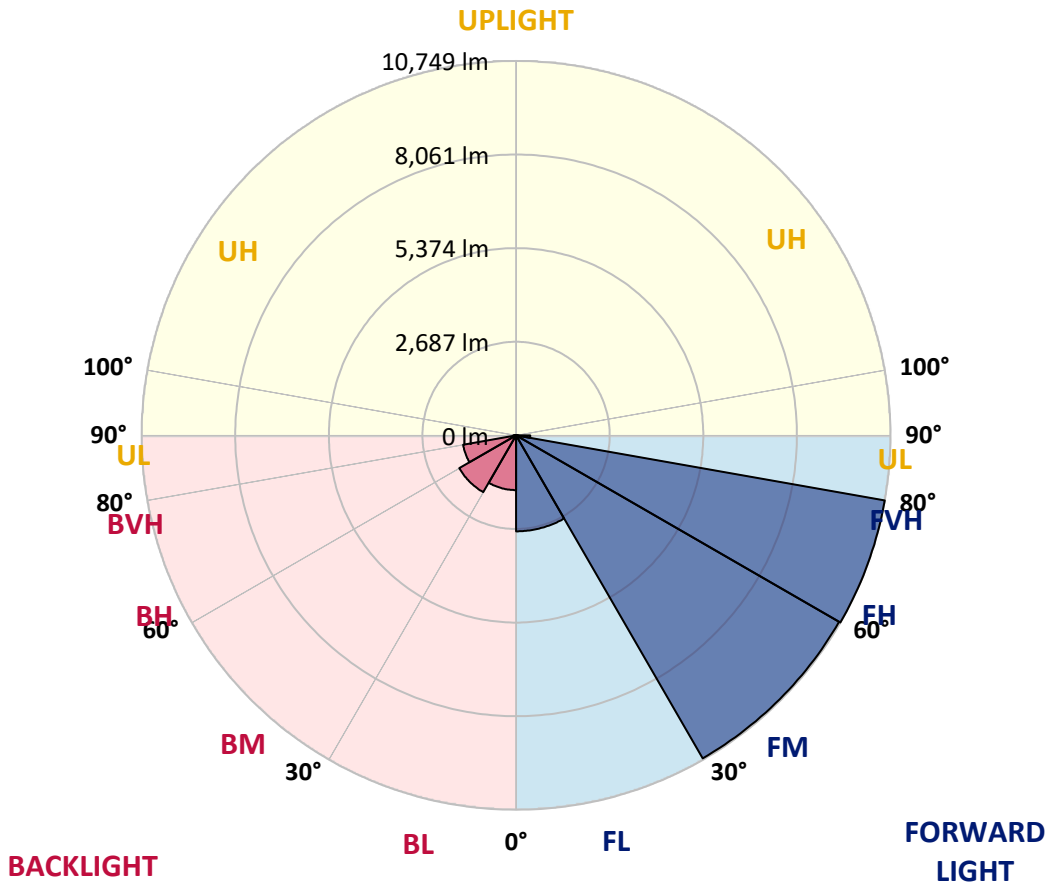
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2756.0	9.3			
FM (30°-60°)	10708.5	36.1			
FH (60°-80°)	10748.5	36.2			G4/12000
FVH (80°-90°)	404.7	1.4			G3/500
BL (0°-30°)	1571.3	5.3	B3/2500		
BM (30°-60°)	1883.1	6.3	B2/2500		
BH (60°-80°)	1543.4	5.2	B3/2500		G3/2500
BVH (80°-90°)	81.0	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 III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	8217.4	8217.4	8217.4	8217.4	8217.4	8217.4	8217.4	8217.4	8217.4	8217.4	8217.4
2.5°	8102.3	8111.0	8134.9	8169.6	8204.4	8221.8	8265.2	8252.2	8243.5	8226.1	8204.4
5°	7743.8	7761.2	7782.9	7850.2	7926.3	7987.1	8084.9	8095.8	8100.1	8108.8	8074.0
7.5°	7287.5	7291.8	7344.0	7433.1	7533.0	7637.3	7800.3	7845.9	7885.0	7928.5	7900.2
10°	6783.4	6794.3	6833.4	6961.6	7133.2	7287.5	7506.9	7583.0	7665.5	7761.2	7722.0
12.5°	6370.6	6372.7	6435.8	6572.6	6759.5	6968.1	7241.9	7333.1	7441.8	7591.7	7556.9
15°	6042.5	6042.5	6101.2	6218.5	6433.6	6679.1	7005.0	7122.4	7270.1	7472.2	7411.3
17.5°	5781.8	5783.9	5820.9	5944.7	6135.9	6407.5	6794.3	6952.9	7115.8	7383.1	7291.8
20°	5644.9	5634.0	5640.5	5716.6	5879.5	6142.4	6583.5	6768.2	6987.6	7322.3	7183.2
22.5°	5638.4	5618.8	5590.5	5597.1	5692.7	5909.9	6357.5	6581.3	6857.3	7272.3	7072.4
25°	5749.2	5727.4	5677.5	5621.0	5612.3	5742.6	6144.6	6398.8	6722.6	7250.5	6965.9
27.5°	5936.0	5920.8	5855.6	5770.9	5681.8	5677.5	5983.8	6248.9	6624.8	7272.3	6889.9
30°	6183.7	6157.6	6116.4	6007.7	5873.0	5734.0	5920.8	6168.5	6559.6	7341.8	6857.3
32.5°	6464.0	6448.8	6409.7	6301.0	6157.6	5936.0	5970.8	6185.9	6559.6	7463.5	6863.8
35°	6761.7	6759.5	6759.5	6687.8	6529.2	6253.2	6168.5	6333.6	6659.6	7659.0	6933.3
37.5°	7050.7	7048.5	7118.0	7144.1	6963.7	6666.1	6505.3	6629.1	6879.0	7948.0	7105.0
40°	7285.3	7294.0	7446.1	7576.5	7476.5	7200.6	6974.6	7037.6	7235.3	8358.7	7404.8
42.5°	7522.1	7546.0	7774.2	8004.5	8043.6	7804.6	7576.5	7613.4	7745.9	8901.9	7852.4
45°	7780.7	7791.6	8111.0	8432.5	8621.6	8480.3	8293.5	8343.5	8373.9	9573.2	8519.4
47.5°	8030.6	8058.8	8471.6	8912.7	9271.2	9258.2	9153.9	9138.7	9145.2	10390.2	9308.2
50°	8371.7	8413.0	8897.5	9429.8	9955.7	10196.8	10227.3	10112.1	10064.3	11298.4	10290.3
52.5°	9019.2	9019.2	9453.7	9977.4	10683.5	11281.0	11485.3	11296.3	11144.2	12258.8	11333.2
55°	9829.6	9864.4	10209.9	10633.6	11528.7	12421.8	13112.7	12904.1	12473.9	13303.9	12426.1
57.5°	10190.3	10233.8	10781.3	11439.7	12634.7	13718.9	14677.1	14603.2	13975.3	14390.3	13560.3
60°	9538.5	9629.7	10383.7	11487.5	13636.3	15811.3	16487.0	16271.9	15374.6	15531.0	14790.1
62.5°	7956.7	8056.6	8893.2	10433.7	13497.3	18073.1	19339.9	18546.8	17121.5	16971.5	16428.3
65°	4747.5	4743.2	5749.2	7791.6	11783.0	18701.1	23854.9	22375.2	19820.0	18948.8	18114.4
67.5°	3018.0	3011.5	3222.2	4128.3	7841.5	17162.7	26757.7	27142.3	23485.5	20402.4	18253.5
70°	2381.4	2379.2	2531.3	2944.1	3878.4	12213.2	25949.4	28611.1	25699.6	19848.3	16072.0
72.5°	1736.0	1740.4	1975.1	2466.1	2991.9	6131.6	21012.9	24480.7	23637.6	17521.3	13047.5
75°	1247.2	1253.7	1394.9	1888.1	2759.4	3352.6	13973.1	18407.7	17984.1	14044.8	8975.7
77.5°	793.1	801.8	925.6	1323.2	2229.3	2707.3	8471.6	12995.4	11965.5	7913.2	3191.8
80°	484.5	512.8	617.1	986.4	1781.7	2031.5	4234.7	6846.4	5992.5	2170.6	1073.4
82.5°	249.9	271.6	371.5	610.5	1227.6	1783.8	2396.6	2876.8	1855.5	908.2	571.4
85°	78.2	91.3	130.4	247.7	584.5	1105.9	1586.1	1429.7	851.7	428.0	265.1
87.5°	19.6	19.6	21.7	21.7	23.9	50.0	306.4	323.7	226.0	134.7	108.6
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°	8217.4	8217.4	8217.4	8217.4	8217.4	8217.4	8217.4	8217.4	8217.4	8217.4	8217.4
2.5°	8160.9	8108.8	8087.1	8084.9	8030.6	7952.4	7900.2	7863.3	7841.5	7837.2	7837.2
5°	8015.4	7948.0	7858.9	7791.6	7646.0	7498.2	7374.4	7304.9	7224.5	7213.6	7211.4
7.5°	7822.0	7724.2	7554.7	7365.7	7111.5	6866.0	6657.4	6516.2	6374.9	6348.8	6340.2
10°	7613.4	7480.9	7191.9	6859.4	6479.2	6112.0	5792.6	5542.7	5377.6	5260.3	5238.6
12.5°	7407.0	7231.0	6807.3	6311.9	5790.4	5288.5	4808.4	4399.9	4104.4	3932.7	3902.3
15°	7213.6	6968.1	6388.0	5755.7	5077.8	4391.2	3711.1	3180.9	2765.9	2618.2	2583.4
17.5°	7037.6	6731.3	5981.6	5179.9	4334.7	3437.3	2663.8	2192.3	1949.0	1875.1	1857.7
20°	6861.6	6487.9	5568.8	4573.7	3546.0	2540.0	1946.8	1725.2	1633.9	1605.7	1597.0
22.5°	6672.6	6220.7	5119.1	3976.2	2748.6	1901.2	1592.6	1494.9	1466.6	1468.8	1466.6
25°	6483.6	5949.1	4647.6	3326.5	2046.8	1542.7	1390.6	1353.6	1360.2	1379.7	1384.1
27.5°	6327.1	5707.9	4184.8	2613.8	1599.2	1327.6	1255.9	1253.7	1277.6	1303.7	1308.0
30°	6214.1	5492.8	3728.5	2009.8	1316.7	1179.8	1151.6	1164.6	1192.9	1212.4	1218.9
32.5°	6133.7	5308.1	3241.8	1579.6	1153.7	1075.5	1062.5	1075.5	1092.9	1112.5	1116.8
35°	6105.5	5173.4	2763.8	1288.5	1042.9	999.5	990.8	997.3	1006.0	1016.9	1021.2
37.5°	6168.5	5106.0	2264.0	1121.2	975.6	949.5	936.5	932.1	934.3	938.6	940.8
40°	6355.4	5136.4	1855.5	1023.4	932.1	908.2	886.5	877.8	875.6	880.0	877.8
42.5°	6676.9	5264.6	1560.1	966.9	897.4	862.6	838.7	830.0	830.0	840.9	840.9
45°	7148.4	5516.7	1347.1	925.6	866.9	823.5	797.4	793.1	801.8	819.1	821.3
47.5°	7839.4	5886.0	1218.9	895.2	838.7	788.7	762.6	760.5	777.9	806.1	808.3
50°	8658.5	6418.4	1149.4	873.5	819.1	760.5	734.4	736.6	756.1	786.5	793.1
52.5°	9644.9	7144.1	1153.7	864.8	808.3	743.1	717.0	712.7	732.2	762.6	769.2
55°	10664.0	8026.2	1238.5	866.9	793.1	734.4	699.6	684.4	701.8	723.5	725.7
57.5°	11785.1	9021.4	1449.2	862.6	773.5	725.7	684.4	649.7	660.5	673.6	680.1
60°	13049.7	10192.5	1903.4	871.3	764.8	706.2	654.0	608.4	606.2	614.9	617.1
62.5°	14740.1	11785.1	2414.0	886.5	784.4	682.3	608.4	560.6	551.9	556.2	558.4
65°	16032.9	12545.6	2253.2	873.5	825.7	664.9	564.9	514.9	497.6	493.2	493.2
67.5°	15507.1	11539.6	1568.7	838.7	845.2	667.0	530.2	467.1	445.4	434.6	432.4
70°	13195.3	9373.3	1090.7	803.9	823.5	662.7	493.2	428.0	399.8	384.6	382.4
72.5°	10425.0	7157.1	882.1	734.4	747.4	597.5	438.9	384.6	360.7	341.1	341.1
75°	6709.5	4367.3	736.6	654.0	610.5	465.0	380.2	343.3	319.4	299.8	299.8
77.5°	2257.5	1620.9	571.4	554.1	456.3	349.8	319.4	295.5	275.9	258.6	256.4
80°	916.9	769.2	419.3	419.3	319.4	267.3	249.9	239.0	226.0	204.2	204.2
82.5°	532.3	467.1	293.3	254.2	212.9	184.7	173.8	163.0	163.0	147.7	147.7
85°	256.4	258.6	176.0	156.4	121.7	106.5	102.1	95.6	93.4	84.7	82.6
87.5°	139.1	141.2	89.1	69.5	47.8	41.3	34.8	32.6	30.4	28.2	28.2
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)