

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: P642768

Luminaire Tested: GWS-SA6D-750-U-SL4-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P642768  
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-SA6D-750-U-SL4-W  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS  
Light Source: (96) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

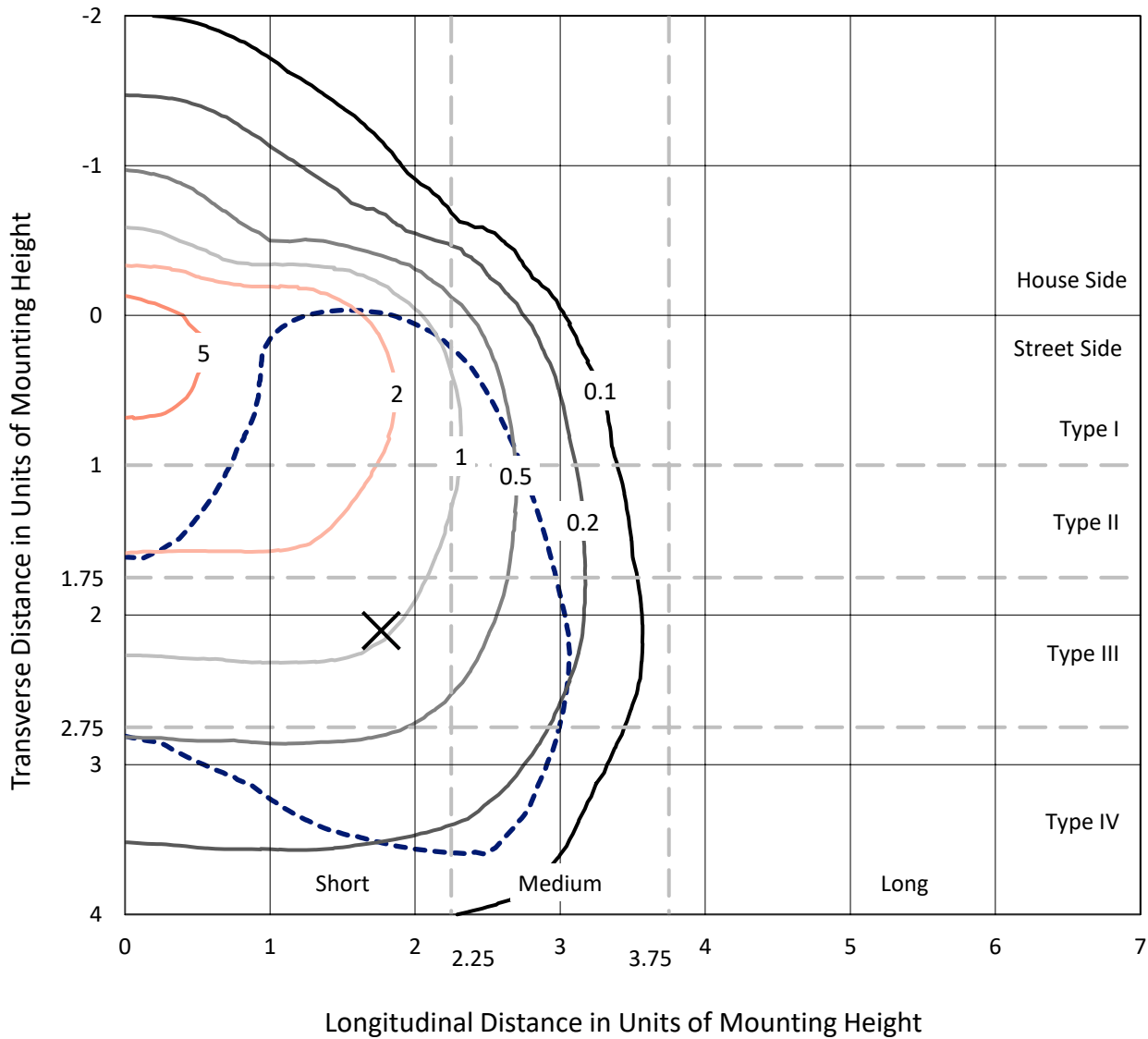
Lumens per Lamp: N/A  
Luminaire Lumens: 35191.2 lumens  
Efficiency: N/A  
Efficacy: 143.2 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 245.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

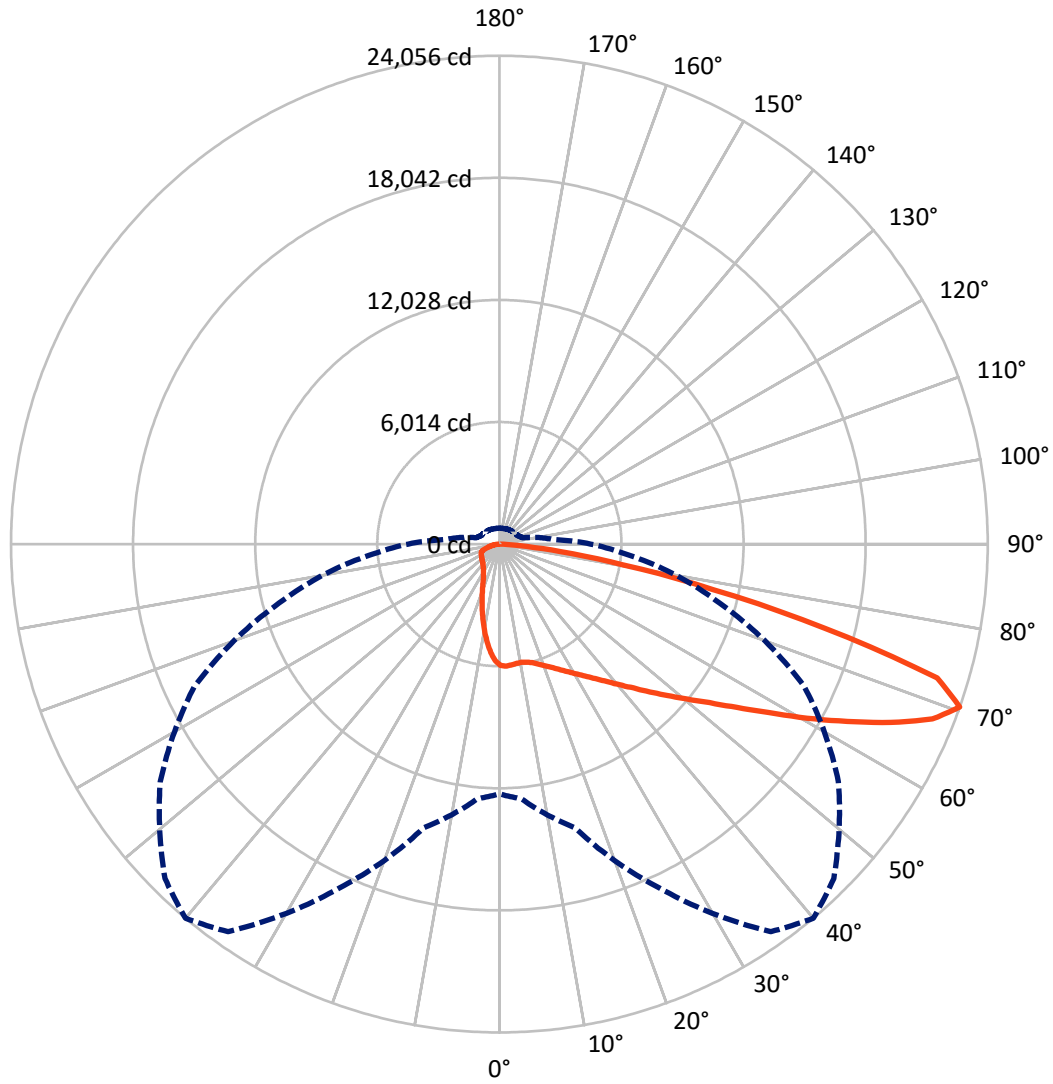
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.6 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	5420.3	0.0	5420.3
	% Fixture	15.4	0.0	15.4
<b>Street Side</b>	Lumens	29770.9	0.0	29770.9
	% Fixture	84.6	0.0	84.6
<b>Total</b>	Lumens	35191.2	0.0	35191.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	527.9	1.5
10°-20°	1376.1	3.9
20°-30°	2160.7	6.1
30°-40°	3248.6	9.2
40°-50°	5014.3	14.2
50°-60°	7446.7	21.2
60°-70°	9386.4	26.7
70°-80°	5428.1	15.4
80°-90°	602.4	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°	35191.2	100.0
0°-180°	35191.2	100.0

**Coefficient of Utilization**



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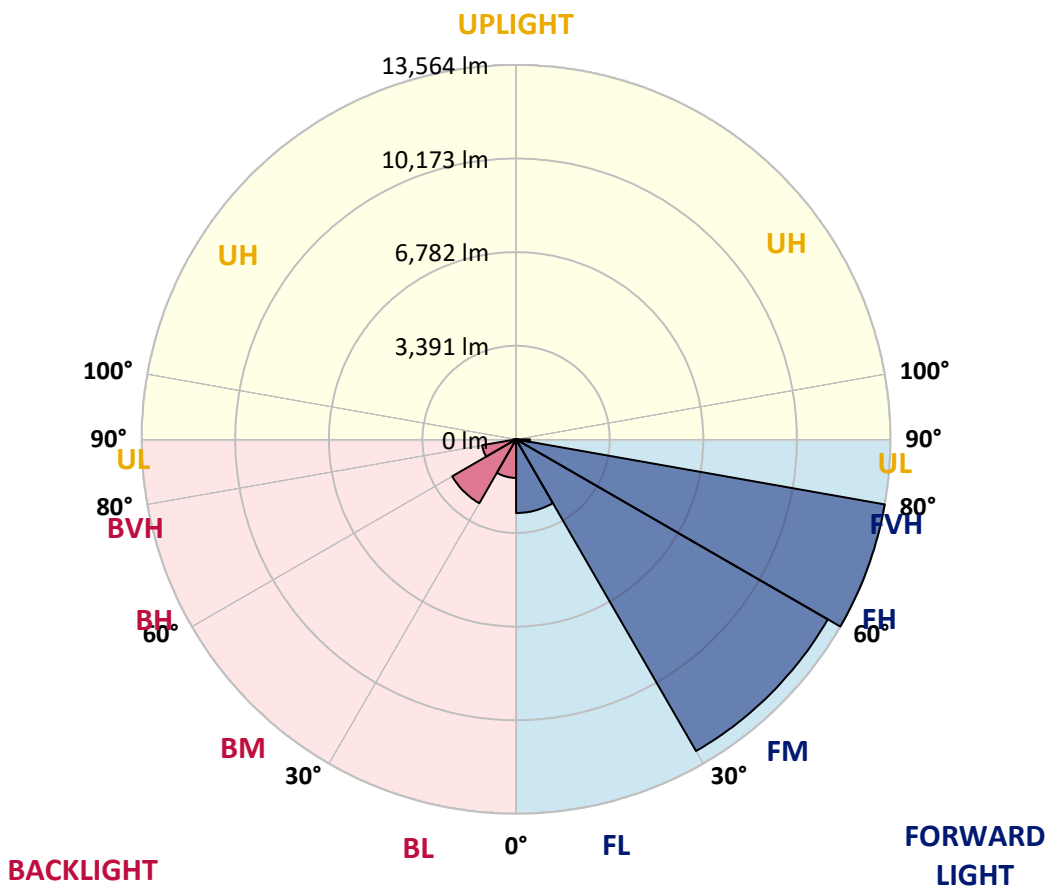
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2667.8	7.6			
FM (30°-60°)	13037.9	37.0			
FH (60°-80°)	13563.5	38.5			G5
FVH (80°-90°)	501.7	1.4			G4/750
BL (0°-30°)	1396.9	4.0	B3/2500		
BM (30°-60°)	2671.7	7.6	B3/5000		
BH (60°-80°)	1251.0	3.6	B3/2500		G3/2500
BVH (80°-90°)	100.7	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	5975.9	5975.9	5975.9	5975.9	5975.9	5975.9	5975.9	5975.9	5975.9	5975.9	5975.9
2.5°	6012.6	6023.2	6031.0	6041.5	6036.3	6020.5	6033.7	6033.7	6004.8	5973.2	5944.3
5°	6020.5	6033.7	6031.0	6028.4	6007.4	5981.1	5981.1	5965.4	5915.5	5865.5	5818.3
7.5°	6004.8	6002.1	5999.5	5991.6	5968.0	5939.1	5933.8	5902.3	5836.7	5768.4	5700.1
10°	5933.8	5931.2	5939.1	5957.5	5952.2	5926.0	5926.0	5897.1	5820.9	5736.8	5647.5
12.5°	5876.1	5876.1	5907.6	5957.5	5975.9	5965.4	5968.0	5947.0	5860.3	5760.5	5655.4
15°	5883.9	5886.6	5954.9	6036.3	6070.4	6062.6	6065.2	6041.5	5944.3	5844.5	5702.7
17.5°	5936.5	5949.6	6067.8	6180.8	6225.4	6214.9	6196.5	6157.1	6046.8	5933.8	5760.5
20°	6046.8	6067.8	6220.2	6362.0	6414.5	6390.9	6359.4	6280.6	6159.7	6036.3	5823.5
22.5°	6264.8	6277.9	6446.1	6585.3	6627.3	6598.4	6535.4	6422.4	6283.2	6154.5	5899.7
25°	6572.1	6587.9	6748.1	6876.8	6866.3	6832.2	6745.5	6606.3	6440.8	6304.2	6010.0
27.5°	6937.3	6963.5	7121.1	7223.6	7155.3	7105.4	7008.2	6840.1	6653.6	6530.1	6178.1
30°	7336.5	7347.0	7481.0	7583.4	7478.4	7410.1	7291.9	7110.6	6942.5	6850.6	6430.3
32.5°	7722.7	7733.2	7848.7	7906.5	7796.2	7746.3	7643.9	7452.1	7333.9	7284.0	6805.9
35°	8129.8	8127.2	8221.7	8271.7	8158.7	8137.7	8032.6	7885.5	7864.5	7930.2	7354.9
37.5°	8537.0	8513.3	8563.2	8628.9	8565.9	8586.9	8518.6	8468.7	8550.1	8720.8	8085.2
40°	8862.7	8862.7	8915.2	8996.6	9017.7	9109.6	9070.2	9135.9	9398.5	9805.7	8988.8
42.5°	9151.6	9154.2	9264.6	9390.7	9543.0	9684.8	9716.4	9887.1	10430.8	11069.1	10123.5
45°	9453.7	9456.3	9606.0	9789.9	10113.0	10383.6	10446.6	10830.1	11607.6	12385.2	11355.5
47.5°	9803.1	9774.2	9981.7	10289.0	10748.7	11137.4	11300.3	11844.0	12826.4	13782.6	12516.5
50°	10197.1	10136.7	10367.8	10898.4	11465.8	11999.0	12272.2	12894.7	14134.6	15072.3	13609.2
52.5°	10641.0	10606.8	10848.5	11494.7	12361.5	12976.2	13346.5	14163.5	15405.9	16356.8	14476.1
55°	11192.6	11111.2	11460.5	12282.7	13412.2	14195.0	14633.7	15419.1	16795.5	17523.1	15138.0
57.5°	11796.8	11707.5	12175.0	13267.7	14778.1	15637.1	16186.1	16832.3	18103.6	18416.2	15526.8
60°	12448.2	12419.3	12973.5	14423.5	16406.7	17404.9	17801.5	18387.3	19241.0	18933.7	15429.6
62.5°	13044.5	13034.0	13840.4	15676.5	18132.5	19230.5	19545.7	19700.7	20060.5	18899.5	14657.3
65°	13672.3	13761.6	14851.7	17129.1	20110.4	21187.4	21318.7	20924.7	20336.3	18003.8	13076.0
67.5°	13751.1	13924.4	15487.4	18489.7	21985.9	23002.5	22897.4	21389.7	19522.0	15511.0	10249.6
70°	12298.5	12600.5	14473.4	18697.2	23307.2	24055.8	23296.7	20388.9	16566.9	11237.3	6446.1
72.5°	10275.9	10535.9	12190.8	15944.4	21602.4	22556.0	21528.9	17257.8	11707.5	6446.1	3283.4
75°	7998.5	8300.5	9826.7	12674.1	16172.9	16553.8	16039.0	12035.8	6435.6	2658.3	1492.0
77.5°	4880.5	5098.5	6285.8	8586.9	11316.1	10746.1	9107.0	6748.1	2823.8	1274.0	922.0
80°	2159.2	2293.2	3096.9	4612.6	6538.0	6180.8	4872.6	2881.6	1544.5	809.0	643.6
82.5°	1158.4	1245.1	1526.1	1825.6	2871.0	3002.4	2435.0	1660.1	830.1	462.3	367.7
85°	509.6	559.5	693.5	661.9	943.0	927.2	935.1	1140.0	396.6	212.8	239.0
87.5°	0.0	0.0	0.0	0.0	2.6	2.6	28.9	152.4	39.4	63.0	55.2
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°	5975.9	5975.9	5975.9	5975.9	5975.9	5975.9	5975.9	5975.9	5975.9	5975.9	5975.9
2.5°	5912.8	5865.5	5852.4	5836.7	5807.8	5757.8	5721.1	5679.0	5660.7	5639.6	5642.3
5°	5765.7	5707.9	5652.8	5581.9	5492.5	5392.7	5324.4	5245.6	5203.6	5164.2	5174.7
7.5°	5639.6	5550.3	5437.4	5287.7	5127.4	4948.8	4804.3	4691.4	4615.2	4562.7	4588.9
10°	5560.8	5455.8	5258.8	5014.5	4743.9	4470.7	4263.2	4068.8	3948.0	3853.5	3848.2
12.5°	5545.1	5408.5	5122.2	4767.6	4376.2	4011.1	3706.4	3443.7	3283.4	3165.2	3209.9
15°	5560.8	5387.5	5004.0	4539.0	4045.2	3551.4	3173.1	2871.0	2679.3	2571.6	2563.7
17.5°	5579.2	5366.5	4870.0	4292.1	3698.5	3133.7	2695.1	2374.6	2177.6	2069.9	2072.5
20°	5595.0	5334.9	4712.4	4021.6	3346.5	2745.0	2290.5	1985.8	1809.8	1731.0	1744.2
22.5°	5621.3	5303.4	4544.3	3732.6	2986.6	2369.3	1970.1	1723.2	1618.1	1565.5	1568.2
25°	5671.2	5285.0	4370.9	3417.4	2632.0	2069.9	1749.4	1583.9	1518.3	1486.7	1484.1
27.5°	5773.6	5300.8	4189.7	3112.7	2311.5	1841.4	1607.6	1499.9	1455.2	1434.2	1431.6
30°	5944.3	5363.8	4032.1	2802.7	2035.7	1662.7	1510.4	1444.7	1418.4	1400.1	1397.4
32.5°	6204.4	5482.0	3861.3	2513.8	1812.5	1531.4	1434.2	1400.1	1381.7	1371.2	1371.2
35°	6598.4	5697.4	3693.2	2261.6	1639.1	1429.0	1373.8	1360.7	1344.9	1339.6	1344.9
37.5°	7165.8	6041.5	3540.9	2041.0	1515.6	1350.2	1308.1	1313.4	1300.2	1308.1	1316.0
40°	7885.5	6501.2	3412.2	1859.7	1423.7	1292.4	1250.3	1268.7	1260.8	1268.7	1281.9
42.5°	8797.0	7071.2	3315.0	1717.9	1358.0	1245.1	1205.7	1224.1	1218.8	1229.3	1242.5
45°	9813.6	7822.5	3270.3	1618.1	1310.8	1210.9	1168.9	1182.0	1176.8	1184.7	1197.8
47.5°	10788.1	8505.4	3309.7	1560.3	1271.3	1182.0	1137.4	1142.6	1140.0	1137.4	1145.3
50°	11628.6	9049.2	3422.7	1541.9	1245.1	1153.1	1111.1	1113.7	1105.9	1090.1	1095.4
52.5°	12314.2	9485.2	3491.0	1541.9	1231.9	1121.6	1082.2	1084.9	1069.1	1048.1	1050.7
55°	12766.0	9661.2	3435.8	1539.3	1226.7	1095.4	1053.3	1056.0	1040.2	1013.9	1016.6
57.5°	12894.7	9490.5	3204.6	1510.4	1221.4	1074.3	1024.4	1029.7	1019.2	990.3	990.3
60°	12534.9	8865.3	2781.7	1444.7	1208.3	1061.2	1003.4	1011.3	1006.0	977.2	977.2
62.5°	11591.9	7754.2	2277.4	1344.9	1171.5	1045.4	985.0	1000.8	1013.9	998.2	995.5
65°	9826.7	6212.3	1851.9	1234.6	1124.3	1019.2	958.8	998.2	1027.1	1048.1	1048.1
67.5°	7373.3	4447.1	1510.4	1119.0	1053.3	966.6	924.6	961.4	982.4	995.5	1003.4
70°	4494.4	2616.2	1189.9	985.0	950.9	887.8	856.3	819.5	790.7	785.4	788.0
72.5°	2198.6	1497.3	966.6	837.9	811.7	753.9	683.0	667.2	654.1	646.2	643.6
75°	1210.9	1042.8	798.5	696.1	648.8	577.9	562.1	535.9	530.6	520.1	522.7
77.5°	856.3	822.2	659.3	564.8	493.8	457.1	464.9	446.5	446.5	438.7	436.0
80°	643.6	646.2	507.0	412.4	365.1	352.0	359.9	359.9	354.6	352.0	349.4
82.5°	407.1	459.7	341.5	265.3	260.0	262.7	260.0	257.4	262.7	254.8	252.2
85°	281.1	331.0	207.5	157.6	157.6	155.0	160.2	157.6	162.9	155.0	155.0
87.5°	63.0	147.1	76.2	47.3	49.9	47.3	49.9	52.5	57.8	60.4	60.4
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)