

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: P640807

Luminaire Tested: GWS-SA5E-750-U-T3-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640807  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-25)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5E-750-U-T3-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (80) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

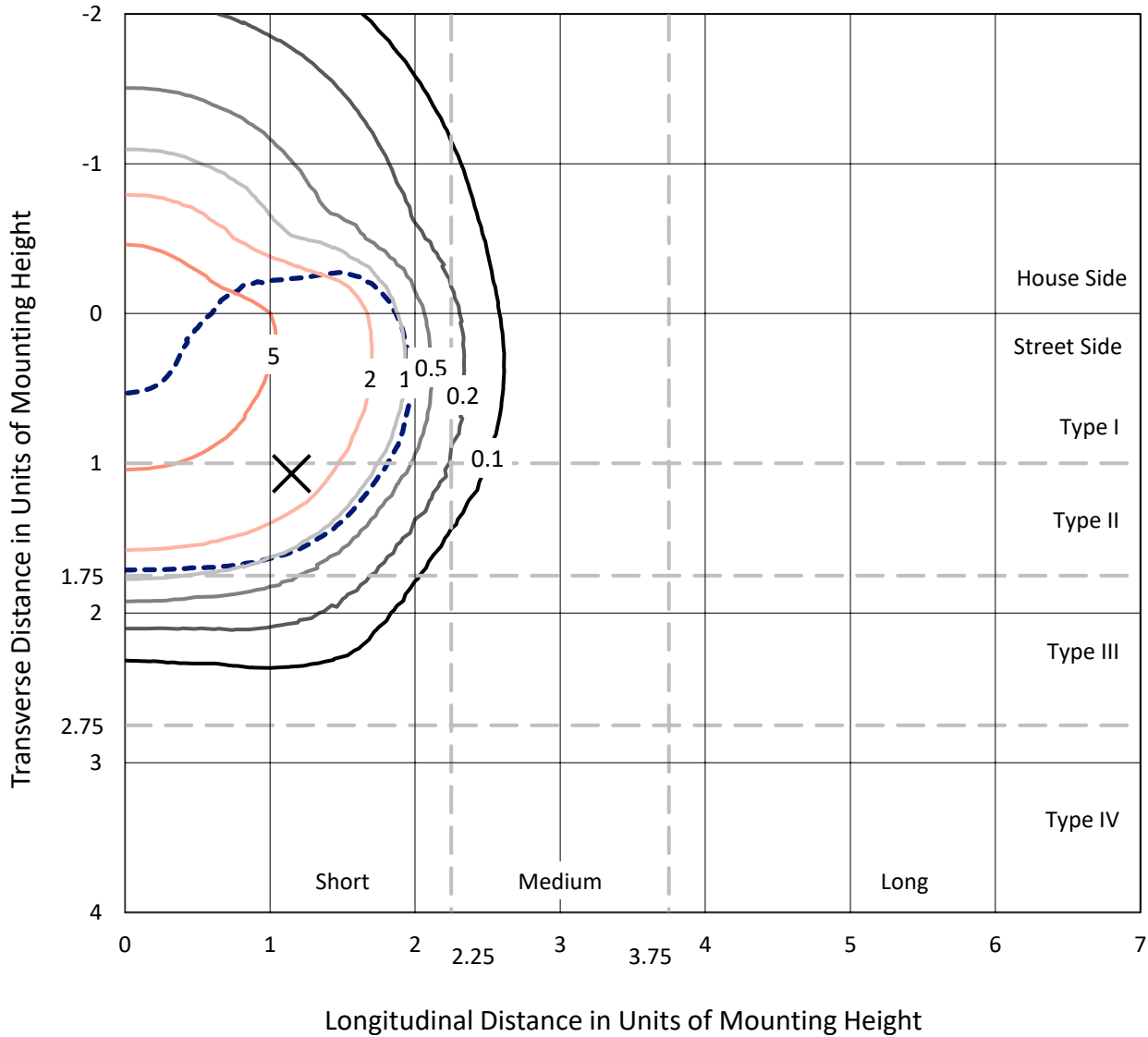
Lumens per Lamp: N/A  
Luminaire Lumens: 32775.4 lumens  
Efficiency: N/A  
Efficacy: 121.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G3  
  
Input Watts (W): 269.6  
Input Voltage (V): 120  
Input Current (Ain): 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

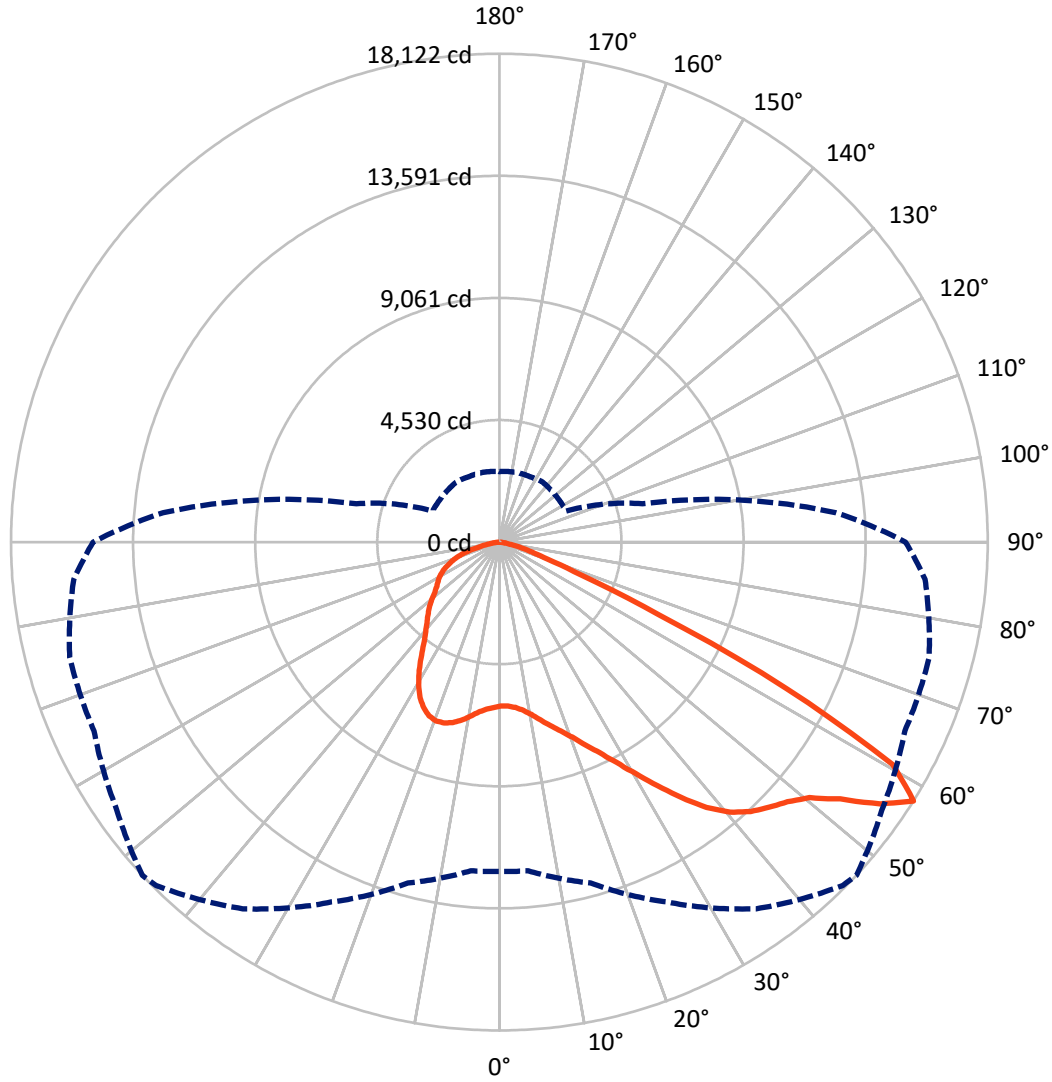
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10373.3	0.0	10373.3
	% Fixture	31.6	0.0	31.6
<b>Street Side</b>	Lumens	22402.1	0.0	22402.1
	% Fixture	68.4	0.0	68.4
<b>Total</b>	Lumens	32775.4	0.0	32775.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	599.5	1.8
10°-20°	1971.8	6.0
20°-30°	3550.5	10.8
30°-40°	5362.6	16.4
40°-50°	7221.3	22.0
50°-60°	8677.4	26.5
60°-70°	4226.1	12.9
70°-80°	1041.1	3.2
80°-90°	125.1	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°	32775.4	100.0
0°-180°	32775.4	100.0

**Coefficient of Utilization**



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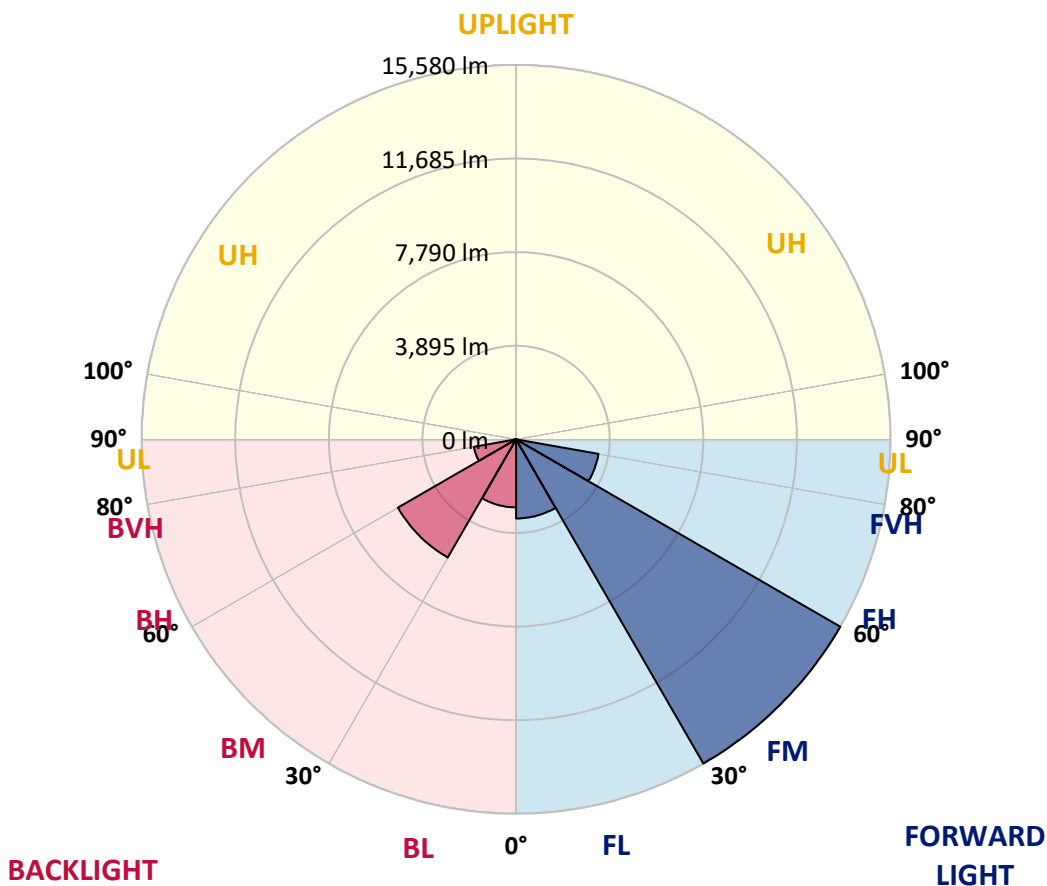
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3292.1	10.0			
FM (30°-60°)	15579.9	47.5			
FH (60°-80°)	3483.0	10.6			G2/5000
FVH (80°-90°)	47.0	0.1			G1/100
BL (0°-30°)	2829.7	8.6	B4/5000		
BM (30°-60°)	5681.4	17.3	B4/8500		
BH (60°-80°)	1784.2	5.4	B3/2500		G3/2500
BVH (80°-90°)	78.1	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	6078.2	6078.2	6078.2	6078.2	6078.2	6078.2	6078.2	6078.2	6078.2	6078.2	6078.2
2.5°	6067.2	6064.5	6064.5	6081.0	6081.0	6086.5	6094.8	6103.0	6105.8	6092.0	6061.7
5°	6133.3	6133.3	6133.3	6147.1	6147.1	6152.6	6163.6	6166.3	6163.6	6141.6	6111.3
7.5°	6237.9	6237.9	6240.7	6257.2	6270.9	6279.2	6298.5	6295.7	6287.5	6251.7	6213.1
10°	6408.6	6416.8	6425.1	6444.4	6471.9	6491.2	6504.9	6504.9	6493.9	6438.9	6389.3
12.5°	6650.8	6661.8	6670.1	6686.6	6708.6	6741.7	6772.0	6772.0	6758.2	6689.4	6615.0
15°	6934.4	6945.4	6942.6	6948.1	6989.4	7036.2	7061.0	7077.5	7083.0	6986.7	6871.1
17.5°	7259.2	7270.2	7259.2	7242.7	7248.2	7322.5	7366.6	7427.1	7462.9	7333.5	7149.1
20°	7553.8	7542.7	7542.7	7553.8	7570.3	7661.1	7727.2	7826.3	7870.3	7713.4	7427.1
22.5°	7864.8	7889.6	7878.6	7878.6	7944.7	8096.1	8175.9	8305.3	8352.1	8148.4	7763.0
25°	8266.7	8288.8	8283.3	8288.8	8365.8	8580.6	8660.4	8899.9	8946.7	8654.9	8134.6
27.5°	8707.2	8743.0	8759.5	8754.0	8877.9	9158.7	9257.8	9590.9	9676.2	9222.0	8531.0
30°	9279.8	9318.3	9332.1	9326.6	9472.5	9855.1	9968.0	10347.9	10469.0	9893.7	9034.8
32.5°	9943.2	9981.8	10023.0	10039.6	10226.8	10617.7	10780.1	11173.7	11347.2	10670.0	9643.2
35°	10601.1	10634.2	10714.0	10843.4	11099.4	11498.6	11641.7	12029.9	12197.8	11476.5	10378.2
37.5°	11327.9	11349.9	11418.7	11597.7	11966.5	12346.4	12489.6	12861.2	12880.5	12255.6	11209.5
40°	12123.5	12123.5	12109.7	12285.9	12671.3	13053.9	13177.8	13392.5	13279.6	12855.7	12018.8
42.5°	12797.9	12786.9	12797.9	12963.1	13249.4	13560.4	13667.8	13626.5	13483.4	13315.4	12751.1
45°	13406.3	13414.5	13513.6	13640.3	13788.9	13973.4	14036.7	13802.7	13673.3	13684.3	13337.5
47.5°	13819.2	13827.5	14058.7	14270.7	14361.5	14419.3	14391.8	14067.0	14000.9	14124.8	13788.9
50°	13874.3	13918.3	14317.5	14752.4	14978.1	14986.4	14909.3	14512.9	14493.6	14634.0	14031.2
52.5°	13885.3	13929.3	14427.6	15212.1	15798.5	15922.4	15834.3	15421.3	15220.4	15080.0	14328.5
55°	13844.0	13893.5	14444.1	15520.4	16643.6	17139.1	17147.4	16563.8	15922.4	15828.8	15176.3
57.5°	12222.6	12241.8	13095.2	14735.9	16610.6	18014.5	18121.9	17329.1	16596.8	16508.7	15856.3
60°	8514.5	8591.6	9519.3	11685.8	13954.1	16428.9	16775.7	16544.5	16054.5	15413.1	13604.5
62.5°	4264.1	4330.2	5260.7	7308.8	9623.9	11578.4	11950.0	12195.0	12310.6	11622.4	9263.3
65°	1836.1	1885.7	2463.8	3818.2	5447.8	6392.1	6521.5	6816.0	7537.2	6725.2	4990.9
67.5°	1227.8	1260.8	1555.3	2328.9	3209.8	3270.4	3251.1	3314.4	3471.3	2865.7	2254.6
70°	941.5	969.0	1167.2	1706.8	2306.9	1973.8	1869.2	1695.7	1841.6	1877.4	1827.9
72.5°	682.7	704.7	853.4	1164.4	1445.2	1260.8	1244.3	1332.4	1530.6	1585.6	1555.3
75°	440.5	451.5	542.3	638.7	746.0	809.3	842.4	1002.0	1203.0	1244.3	1208.5
77.5°	294.6	302.8	355.1	410.2	423.9	426.7	437.7	509.3	646.9	724.0	715.7
80°	154.2	154.2	173.4	173.4	198.2	236.7	247.8	294.6	357.9	396.4	399.2
82.5°	60.6	63.3	74.3	82.6	99.1	121.1	129.4	154.2	187.2	214.7	239.5
85°	24.8	27.5	30.3	35.8	44.0	55.1	57.8	66.1	88.1	110.1	123.9
87.5°	0.0	0.0	2.8	2.8	5.5	8.3	8.3	11.0	13.8	24.8	33.0
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°	6078.2	6078.2	6078.2	6078.2	6078.2	6078.2	6078.2	6078.2	6078.2	6078.2	6078.2
2.5°	6097.5	6061.7	6097.5	6108.5	6138.8	6149.8	6130.5	6127.8	6127.8	6100.3	6092.0
5°	6138.8	6105.8	6141.6	6158.1	6202.1	6229.7	6235.2	6257.2	6270.9	6259.9	6257.2
7.5°	6240.7	6199.4	6237.9	6262.7	6320.5	6364.5	6383.8	6433.4	6469.1	6463.6	6460.9
10°	6419.6	6364.5	6408.6	6449.9	6513.2	6565.5	6568.2	6595.8	6631.6	6620.6	6615.0
12.5°	6626.1	6573.8	6623.3	6664.6	6738.9	6760.9	6725.2	6714.1	6719.7	6705.9	6694.9
15°	6879.3	6805.0	6849.0	6895.8	6937.1	6912.4	6835.3	6805.0	6802.2	6783.0	6772.0
17.5°	7132.6	7039.0	7072.0	7096.8	7077.5	7000.4	6904.1	6851.8	6827.0	6788.5	6777.5
20°	7383.1	7264.7	7259.2	7239.9	7151.8	7011.5	6882.1	6777.5	6714.1	6661.8	6642.6
22.5°	7669.4	7504.2	7421.6	7333.5	7140.8	6912.4	6716.9	6568.2	6466.4	6400.3	6378.3
25°	7977.7	7743.7	7573.0	7396.9	7030.7	6700.4	6427.9	6224.1	6103.0	6031.4	6006.7
27.5°	8283.3	7961.2	7705.2	7405.1	6810.5	6394.8	6028.7	5753.4	5632.3	5574.5	5555.2
30°	8696.2	8250.2	7862.1	7297.7	6521.5	5970.9	5513.9	5235.9	5156.0	5114.8	5098.2
32.5°	9172.4	8616.4	8071.3	7072.0	6152.6	5475.4	4993.6	4800.9	4745.9	4666.0	4663.3
35°	9800.1	9139.4	8269.5	6738.9	5687.3	4944.1	4594.5	4456.8	4357.7	4231.1	4220.1
37.5°	10532.3	9791.8	8376.9	6315.0	5145.0	4506.4	4297.2	4143.0	3983.3	3815.4	3793.4
40°	11289.3	10554.3	8385.1	5814.0	4613.7	4217.3	4041.2	3840.2	3642.0	3454.8	3430.0
42.5°	12084.9	11264.6	8239.2	5235.9	4178.8	3966.8	3787.9	3534.6	3311.7	3185.0	3171.3
45°	12795.1	11837.2	7908.9	4627.5	3856.7	3757.6	3529.1	3256.6	3138.2	3047.4	3028.1
47.5°	13354.0	12217.1	7462.9	4082.4	3595.2	3542.9	3245.6	3105.2	3014.3	2931.8	2912.5
50°	13629.3	12302.4	6882.1	3639.2	3352.9	3289.6	3085.9	2978.6	2918.0	2851.9	2835.4
52.5°	13970.6	12398.7	6381.1	3267.6	3116.2	3030.9	2953.8	2868.4	2824.4	2783.1	2769.3
55°	14755.2	12762.1	6116.8	2970.3	2890.5	2851.9	2840.9	2769.3	2755.6	2728.1	2703.3
57.5°	15074.5	12528.1	5491.9	2728.1	2711.5	2717.0	2744.6	2678.5	2664.7	2631.7	2615.2
60°	12123.5	9469.7	3719.1	2518.8	2562.9	2598.7	2626.2	2560.1	2540.9	2535.4	2513.3
62.5°	7768.5	5825.0	2595.9	2323.4	2389.5	2433.5	2450.0	2386.7	2372.9	2417.0	2419.7
65°	4043.9	3174.0	2105.9	2114.2	2169.2	2235.3	2268.3	2246.3	2240.8	2287.6	2290.4
67.5°	2064.6	1940.7	1836.1	1866.4	1910.5	1995.8	2072.9	2169.2	2202.3	2207.8	2210.5
70°	1759.1	1704.0	1651.7	1671.0	1717.8	1764.6	1838.9	1885.7	1830.6	1816.9	1811.4
72.5°	1497.5	1456.2	1431.5	1453.5	1478.3	1470.0	1448.0	1470.0	1478.3	1481.0	1483.8
75°	1164.4	1134.2	1114.9	1117.6	1117.6	1087.4	1046.1	1021.3	993.8	971.7	971.7
77.5°	713.0	718.5	737.8	735.0	732.3	721.2	679.9	657.9	591.9	572.6	572.6
80°	407.4	415.7	434.9	440.5	440.5	426.7	385.4	360.6	330.3	316.6	313.8
82.5°	247.8	258.8	269.8	275.3	278.0	261.5	225.7	206.5	189.9	176.2	176.2
85°	129.4	134.9	145.9	148.7	140.4	123.9	104.6	96.3	79.8	77.1	77.1
87.5°	35.8	38.5	44.0	35.8	33.0	24.8	13.8	11.0	5.5	2.8	2.8
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)