

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: P640498

Luminaire Tested: GWS-SA5E-722-U-AFL-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640498  
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-SA5E-722-U-AFL-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND  
AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (80) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

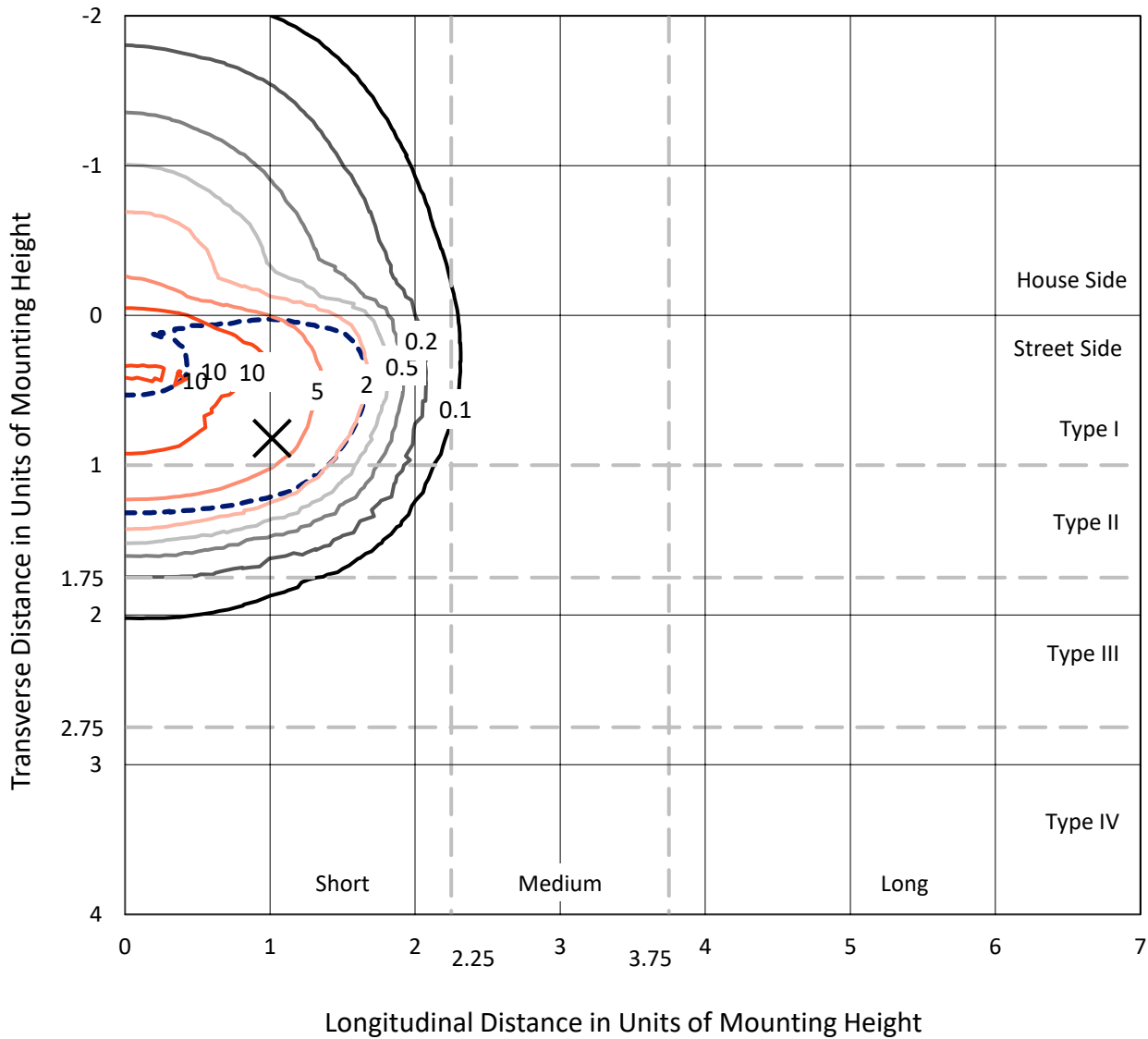
Lumens per Lamp: N/A  
Luminaire Lumens: 25086.1 lumens  
Efficiency: N/A  
Efficacy: 93.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 269.6  
Input Voltage (V): 120  
Input Current (Ain): 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

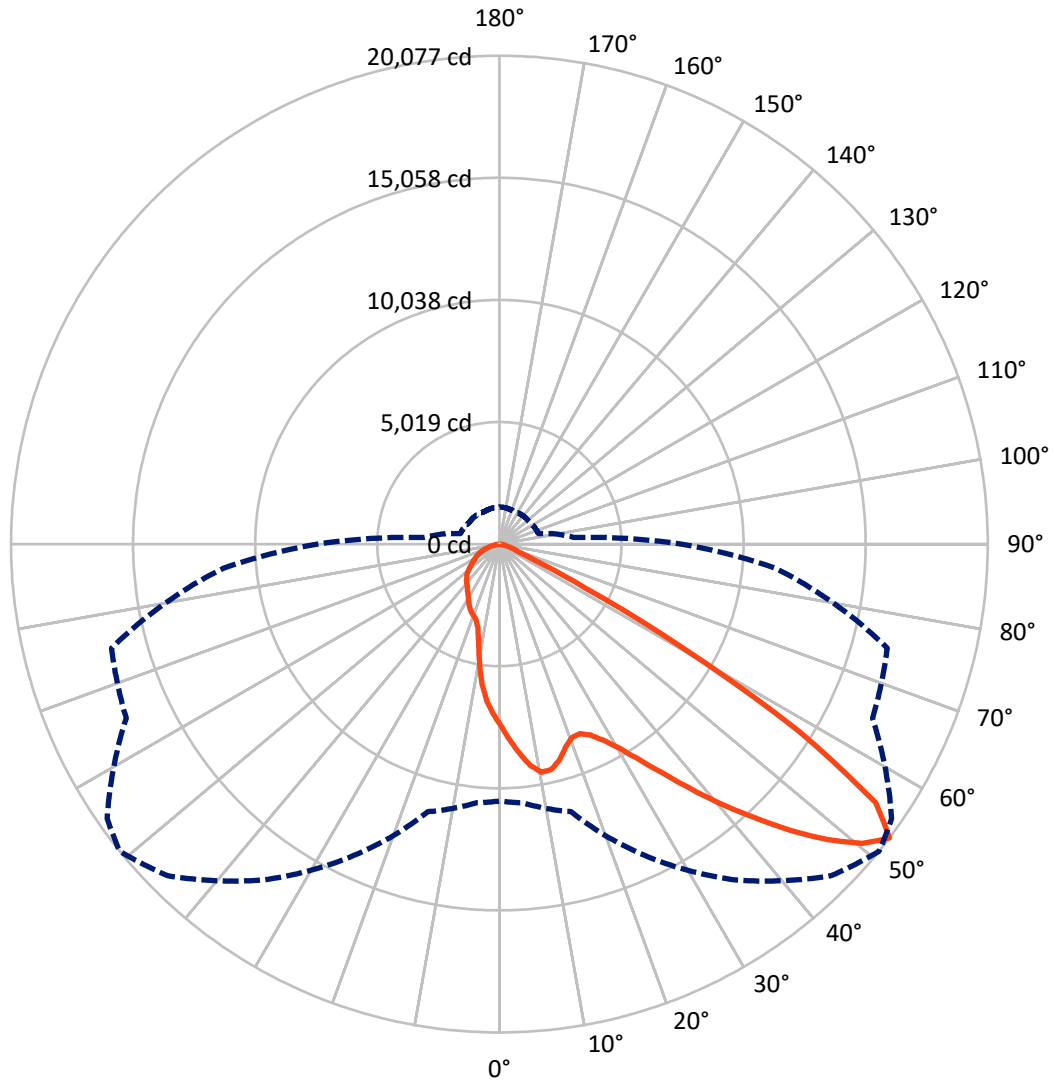
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.6 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	4887.8	0.0	4887.8
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	20198.3	0.0	20198.3
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	25086.1	0.0	25086.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	697.0	2.8
10°-20°	1811.1	7.2
20°-30°	2944.7	11.7
30°-40°	4666.6	18.6
40°-50°	7038.3	28.1
50°-60°	6088.7	24.3
60°-70°	1380.4	5.5
70°-80°	407.0	1.6
80°-90°	52.4	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°	25086.1	100.0
0°-180°	25086.1	100.0

**Coefficient of Utilization**



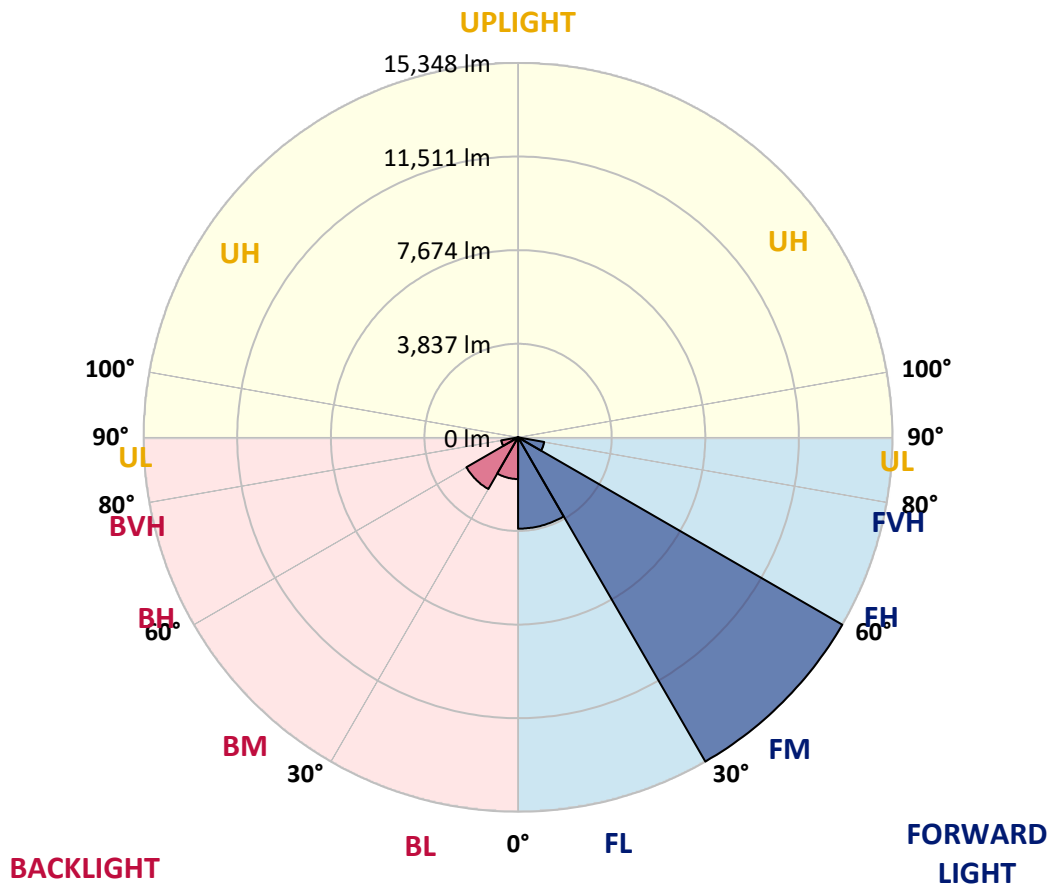
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3744.2	14.9			
FM (30°-60°)	15348.0	61.2			
FH (60°-80°)	1086.3	4.3			G1/1800
FVH (80°-90°)	19.8	0.1			G1/100
BL (0°-30°)	1708.6	6.8	B3/2500		
BM (30°-60°)	2445.5	9.7	B2/2500		
BH (60°-80°)	701.0	2.8	B2/1000		G2/1000
BVH (80°-90°)	32.7	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	51°	55°	65°	75°	85°
0°	7469.4	7469.4	7469.4	7469.4	7469.4	7469.4	7469.4	7469.4	7469.4	7469.4	7469.4
2.5°	8323.8	8371.3	8298.0	8270.2	8224.6	8145.4	8054.2	8028.4	7832.1	7703.3	7558.6
5°	9160.3	9186.1	9126.6	9067.1	8954.1	8813.4	8637.0	8599.3	8242.5	7947.1	7639.9
7.5°	9346.6	9336.7	9388.3	9422.0	9408.1	9352.6	9196.0	9122.6	8696.4	8228.6	7774.7
10°	8609.2	8553.7	8744.0	8970.0	9241.6	9554.8	9536.9	9531.0	9160.3	8607.2	7947.1
12.5°	7631.9	7604.2	7758.8	8042.3	8555.7	9249.5	9509.2	9711.4	9578.6	8968.0	8139.4
15°	7072.9	7063.0	7168.1	7372.2	7780.6	8656.8	9211.8	9612.3	9937.4	9354.6	8343.6
17.5°	6971.8	6977.8	7013.4	7130.4	7423.8	8145.4	8787.6	9346.6	10216.9	9778.8	8599.3
20°	7267.2	7306.8	7245.4	7263.2	7421.8	7961.0	8498.2	9079.0	10395.3	10205.0	8874.8
22.5°	7923.3	7909.5	7774.7	7695.4	7697.4	8074.0	8466.5	8954.1	10512.2	10619.3	9124.6
25°	8666.7	8650.8	8490.3	8313.9	8202.8	8381.3	8694.5	9087.0	10617.3	10997.9	9324.8
27.5°	9544.9	9495.3	9316.9	9090.9	8845.1	8922.4	9134.5	9445.8	10779.9	11370.6	9457.7
30°	10395.3	10452.8	10197.1	9929.4	9669.8	9622.2	9745.1	10026.6	11110.9	11806.7	9616.2
32.5°	11523.2	11503.4	11219.9	10871.0	10500.4	10464.7	10561.8	10819.5	11705.6	12409.3	9858.1
35°	12889.0	12893.0	12490.6	12018.8	11491.5	11396.4	11558.9	11808.7	12591.7	13226.0	10240.7
37.5°	14308.4	14302.4	13951.6	13416.3	12696.8	12562.0	12748.3	12934.6	13699.8	14338.1	10835.4
40°	15303.5	15343.2	15178.6	14897.1	14215.2	13886.2	14050.7	14179.5	14905.1	15646.5	11618.4
42.5°	15868.5	15927.9	15963.6	16132.1	15773.3	15422.5	15363.0	15430.4	15981.5	16861.6	12353.8
45°	15989.4	16068.7	16328.4	16952.8	17091.6	16992.5	16798.2	16635.6	16784.3	17723.9	12835.5
47.5°	15456.2	15594.9	16150.0	17242.2	18053.0	18364.2	18148.1	17900.4	17248.2	17945.9	12786.0
50°	13343.0	13505.5	14756.4	16651.5	18189.8	19323.7	19343.5	18976.8	17192.7	17305.7	12163.5
52.5°	10563.8	10674.8	11390.4	14116.1	16847.7	19284.0	20076.9	19684.4	16925.1	16504.8	11384.5
55°	6313.7	6492.1	7160.1	9312.9	13124.9	17091.6	18780.5	18970.8	16794.2	15832.8	10853.2
57.5°	2131.0	2218.2	2856.5	4113.3	7735.0	12514.4	14510.6	15283.7	15246.0	14806.0	9816.5
60°	1014.9	1034.8	1163.6	1560.1	3096.4	6539.7	8589.4	9481.4	10294.2	10375.5	6107.5
62.5°	773.1	785.0	850.4	935.7	1244.9	2755.4	3936.9	4618.8	4934.0	4234.2	2224.2
65°	646.2	656.1	705.7	759.2	846.5	1193.4	1510.5	1742.5	1570.0	1223.1	1060.5
67.5°	539.2	547.1	584.8	642.3	701.7	798.9	838.5	862.3	903.9	1014.9	975.3
70°	422.2	430.2	469.8	519.4	576.9	600.6	638.3	662.1	745.4	888.1	884.1
72.5°	325.1	335.0	356.8	388.5	436.1	459.9	501.5	529.3	576.9	691.8	739.4
75°	237.9	243.8	263.6	273.6	279.5	273.6	315.2	346.9	410.3	454.0	465.8
77.5°	97.1	109.0	105.1	105.1	124.9	150.7	172.5	192.3	235.9	261.7	263.6
80°	39.6	43.6	51.5	57.5	69.4	89.2	103.1	111.0	130.8	146.7	158.6
82.5°	23.8	25.8	29.7	31.7	39.6	51.5	59.5	65.4	81.3	97.1	103.1
85°	11.9	11.9	13.9	15.9	19.8	23.8	27.8	31.7	41.6	51.5	57.5
87.5°	2.0	2.0	2.0	4.0	5.9	7.9	9.9	11.9	13.9	15.9	19.8
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°	7469.4	7469.4	7469.4	7469.4	7469.4	7469.4	7469.4	7469.4	7469.4	7469.4	7469.4
2.5°	7473.3	7366.3	7241.4	7142.3	7027.3	6942.1	6821.2	6745.8	6674.5	6615.0	6571.4
5°	7481.3	7300.9	7041.2	6811.3	6573.4	6347.4	6115.5	5927.1	5758.6	5617.9	5606.0
7.5°	7526.9	7267.2	6860.8	6458.4	5994.5	5546.5	5098.5	4733.8	4456.3	4311.5	4281.8
10°	7604.2	7263.2	6676.5	6034.2	5243.2	4521.7	3990.4	3712.9	3552.3	3494.8	3475.0
12.5°	7685.5	7253.3	6440.6	5435.5	4337.3	3705.0	3413.6	3379.9	3409.6	3413.6	3411.6
15°	7784.6	7247.4	6143.2	4733.8	3675.2	3326.3	3346.2	3417.5	3486.9	3502.8	3502.8
17.5°	7905.5	7233.5	5738.8	4047.9	3260.9	3253.0	3358.1	3453.2	3518.6	3530.5	3530.5
20°	8032.4	7197.8	5241.3	3488.9	3092.4	3207.4	3320.4	3393.7	3439.3	3455.2	3457.2
22.5°	8119.6	7102.7	4668.4	3074.6	2987.4	3120.2	3201.4	3276.8	3276.8	3237.1	3225.2
25°	8137.4	6898.5	4047.9	2791.1	2862.5	2985.4	3068.6	3025.0	2943.7	2912.0	2910.0
27.5°	8072.0	6601.1	3435.4	2588.9	2711.8	2834.7	2820.8	2757.4	2721.7	2690.0	2701.9
30°	7992.7	6244.3	2904.1	2422.4	2537.4	2658.3	2610.7	2588.9	2563.1	2527.5	2535.4
32.5°	7939.2	5845.9	2495.7	2293.5	2420.4	2440.2	2473.9	2472.0	2448.2	2380.8	2376.8
35°	7955.1	5443.5	2222.2	2188.5	2323.3	2315.4	2378.8	2366.9	2202.4	2109.2	2103.2
37.5°	8081.9	5056.9	2061.6	2105.2	2168.7	2218.2	2273.7	2131.0	2073.5	2014.0	2018.0
40°	8323.8	4698.1	1974.4	2059.6	2075.5	2148.8	2020.0	2018.0	1992.2	1938.7	1936.7
42.5°	8597.3	4394.8	1914.9	2037.8	2016.0	2029.9	1893.1	1909.0	1907.0	1873.3	1863.4
45°	8763.8	4115.3	1867.3	1956.6	1962.5	1823.7	1782.1	1799.9	1809.9	1792.0	1790.0
47.5°	8591.4	3794.2	1817.8	1831.7	1883.2	1730.6	1679.0	1681.0	1698.8	1700.8	1692.9
50°	8107.7	3435.4	1758.3	1724.6	1690.9	1633.4	1585.9	1575.9	1593.8	1611.6	1617.6
52.5°	7483.3	3092.4	1659.2	1607.7	1528.4	1528.4	1506.6	1474.8	1498.6	1522.4	1530.4
55°	7025.3	2838.7	1518.5	1461.0	1373.7	1403.5	1399.5	1371.8	1403.5	1421.3	1427.3
57.5°	6087.7	2281.7	1336.1	1318.2	1244.9	1280.6	1288.5	1252.8	1237.0	1240.9	1246.9
60°	3613.8	1472.9	1205.3	1203.3	1137.9	1179.5	1203.3	1167.6	1120.0	1126.0	1133.9
62.5°	1621.5	1126.0	1040.7	1032.8	1030.8	1084.3	1110.1	1076.4	1009.0	1014.9	1022.9
65°	1020.9	973.3	903.9	903.9	935.7	981.2	1001.1	973.3	896.0	886.1	894.0
67.5°	947.5	905.9	834.6	820.7	836.5	874.2	876.2	822.7	777.1	769.1	769.1
70°	850.4	818.7	749.3	721.6	715.6	713.6	707.7	693.8	664.1	656.1	660.1
72.5°	703.7	681.9	638.3	608.6	592.7	590.7	566.9	555.0	529.3	525.3	523.3
75°	465.8	471.8	471.8	467.8	454.0	448.0	422.2	410.3	380.6	368.7	366.7
77.5°	275.5	281.5	289.4	291.4	289.4	289.4	265.6	251.8	222.0	206.2	202.2
80°	168.5	172.5	176.4	182.4	174.4	168.5	146.7	132.8	118.9	109.0	107.0
82.5°	109.0	113.0	115.0	118.9	115.0	107.0	89.2	81.3	71.4	63.4	61.5
85°	61.5	63.4	67.4	67.4	61.5	55.5	45.6	39.6	33.7	29.7	29.7
87.5°	21.8	21.8	21.8	23.8	19.8	17.8	11.9	7.9	5.9	5.9	5.9
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)