

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: P633433

Luminaire Tested: GWS-SA2E-760-U-T2R-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P633433  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-13)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA2E-760-U-T2R-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (32) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

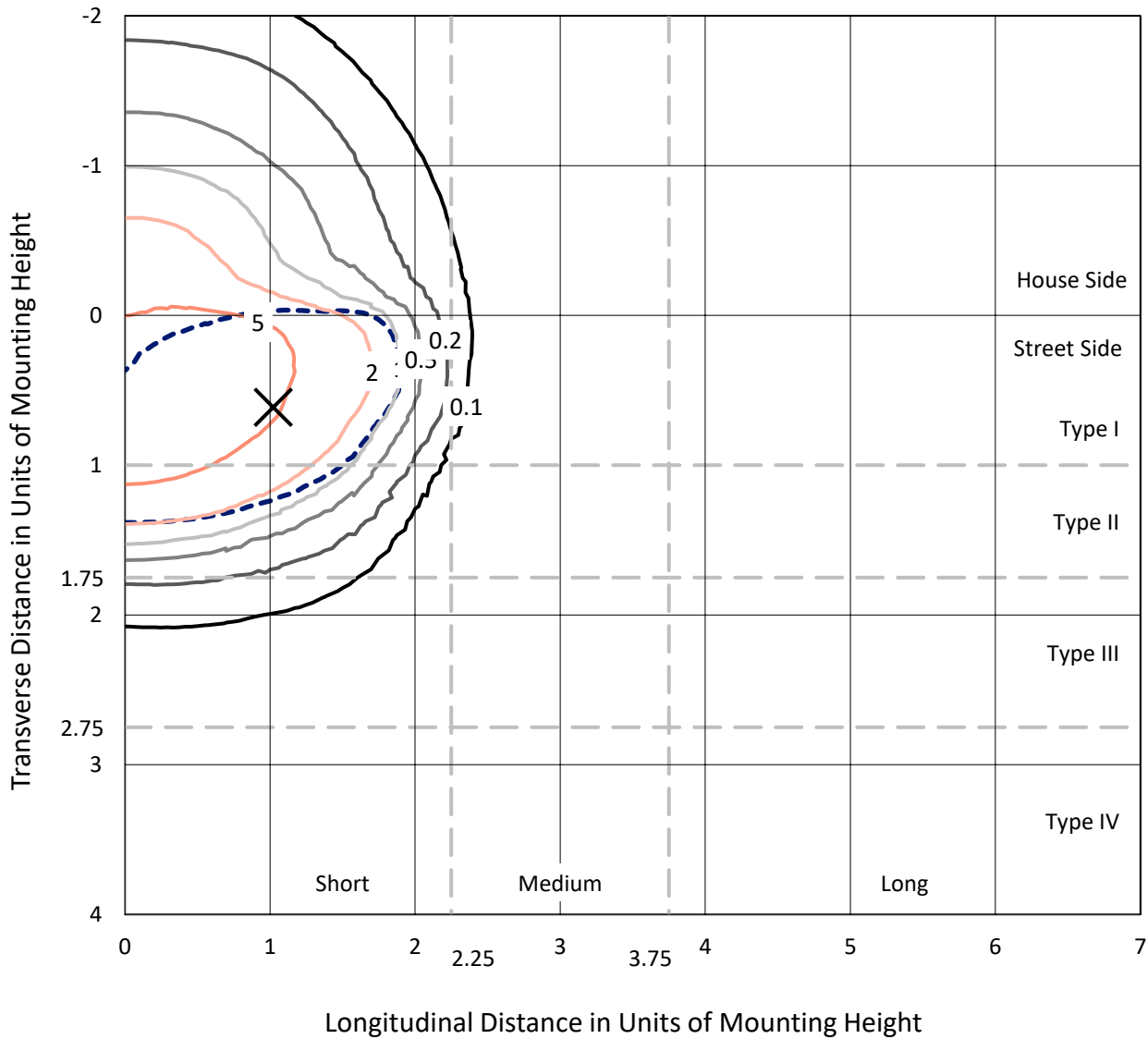
Lumens per Lamp: N/A  
Luminaire Lumens: 12955.9 lumens  
Efficiency: N/A  
Efficacy: 119.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 108.2  
Input Voltage (V): 120  
Input Current (Ain): 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

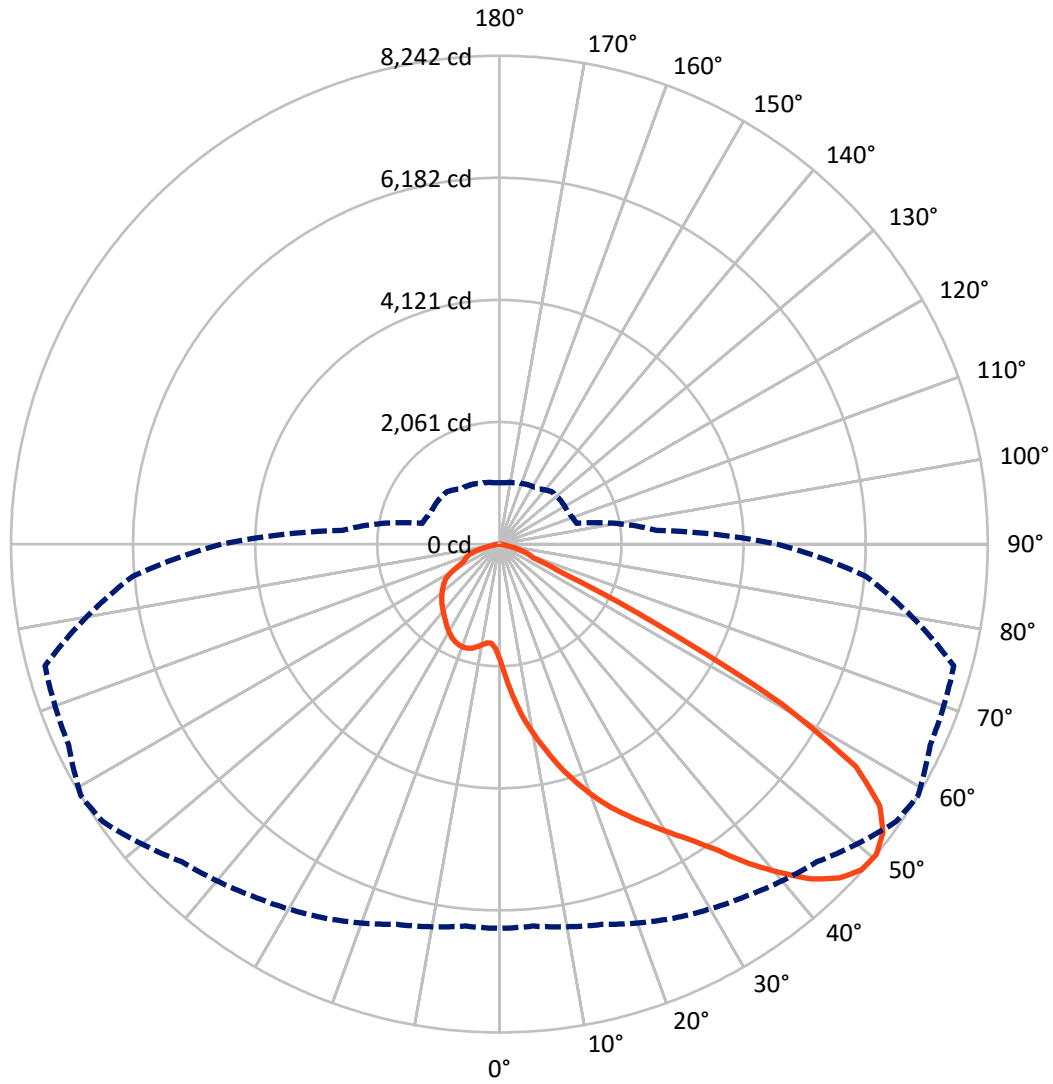
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral    - - - Horizontal Cone Through 50-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2980.1	0.0	2980.1
	% Fixture	23.0	0.0	23.0
<b>Street Side</b>	Lumens	9975.8	0.0	9975.8
	% Fixture	77.0	0.0	77.0
<b>Total</b>	Lumens	12955.9	0.0	12955.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	220.2	1.7
10°-20°	799.4	6.2
20°-30°	1513.7	11.7
30°-40°	2510.2	19.4
40°-50°	3429.1	26.5
50°-60°	3112.7	24.0
60°-70°	1036.6	8.0
70°-80°	302.3	2.3
80°-90°	31.8	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°	12955.9	100.0
0°-180°	12955.9	100.0

**Coefficient of Utilization**



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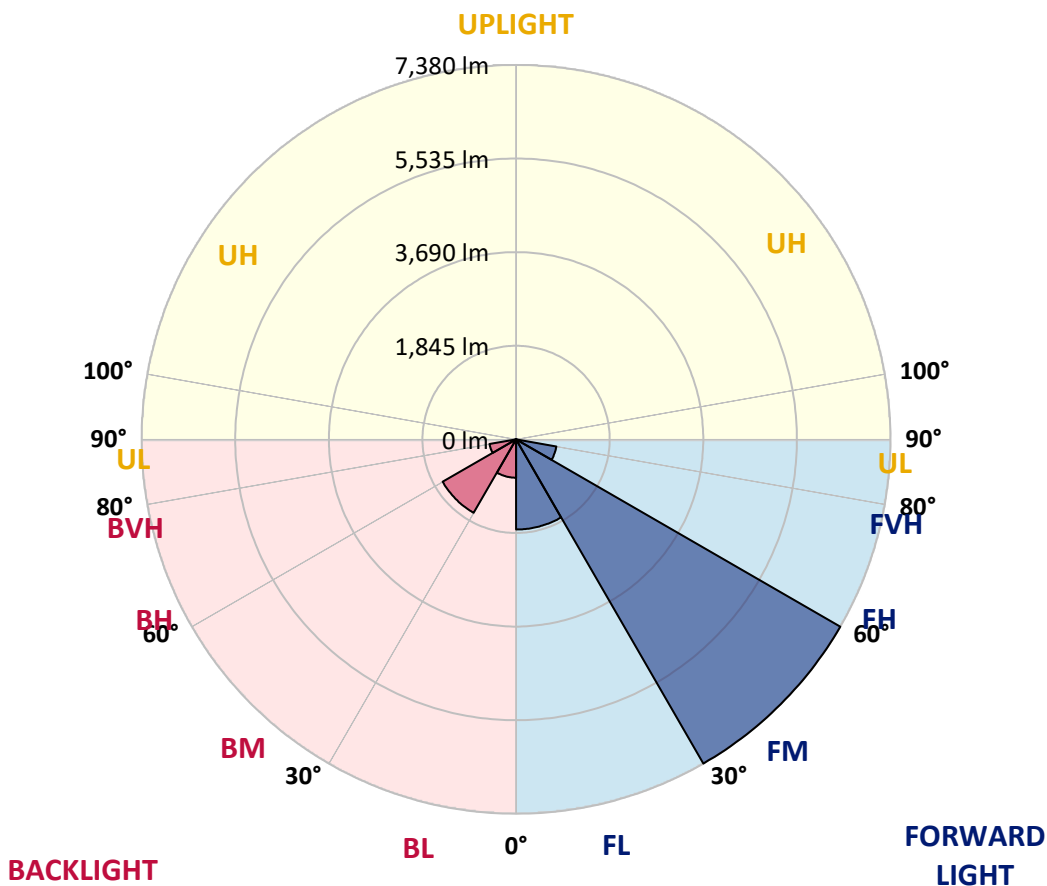
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1776.6	13.7			
FM (30°-60°)	7379.8	57.0			
FH (60°-80°)	807.0	6.2			G1/1800
FVH (80°-90°)	12.4	0.1			G1/100
BL (0°-30°)	756.7	5.8	B2/1000		
BM (30°-60°)	1672.1	12.9	B2/2500		
BH (60°-80°)	531.9	4.1	B2/1000		G2/1000
BVH (80°-90°)	19.3	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	1962.9	1962.9	1962.9	1962.9	1962.9	1962.9	1962.9	1962.9	1962.9	1962.9	1962.9
2.5°	2543.3	2562.3	2532.8	2534.9	2461.0	2427.3	2332.3	2276.3	2239.4	2136.0	2042.1
5°	3056.2	3034.1	3010.9	2997.1	2932.8	2842.0	2723.8	2629.9	2543.3	2340.7	2145.5
7.5°	3370.7	3359.1	3343.3	3334.8	3271.5	3176.5	3058.3	2978.1	2852.6	2578.2	2271.1
10°	3637.7	3624.0	3614.5	3620.8	3569.1	3507.9	3379.2	3287.3	3145.9	2829.3	2423.0
12.5°	3844.6	3851.9	3855.1	3888.9	3866.7	3829.8	3696.8	3599.7	3442.5	3094.2	2601.4
15°	4008.1	4006.0	4043.0	4107.3	4143.2	4120.0	4013.4	3932.2	3740.1	3354.9	2793.5
17.5°	4046.1	4048.2	4106.3	4219.2	4336.3	4393.3	4333.2	4236.1	4046.1	3612.4	2992.9
20°	4076.7	4081.0	4141.1	4269.9	4440.8	4600.2	4609.7	4540.0	4376.4	3891.0	3195.5
22.5°	4269.9	4279.4	4295.2	4376.4	4530.5	4732.1	4842.9	4828.1	4690.9	4183.3	3414.0
25°	4777.5	4749.0	4671.9	4648.7	4707.8	4871.4	5060.3	5088.8	5021.3	4505.2	3649.3
27.5°	5404.3	5373.7	5259.8	5139.4	5011.8	5068.7	5270.3	5355.8	5356.8	4859.8	3885.7
30°	5973.2	5948.9	5856.0	5684.0	5463.4	5381.1	5529.9	5645.0	5713.5	5269.3	4154.8
32.5°	6459.7	6437.5	6311.9	6171.6	5956.3	5790.6	5844.4	5955.2	6115.6	5799.0	4489.4
35°	6869.1	6847.0	6726.7	6585.2	6385.8	6286.6	6267.6	6343.6	6551.5	6352.0	4873.5
37.5°	7201.6	7179.4	7053.8	6920.8	6768.9	6775.2	6803.7	6840.6	6959.9	6944.1	5284.0
40°	7416.8	7393.6	7303.9	7208.9	7112.9	7188.9	7330.3	7286.0	7349.3	7422.1	5661.8
42.5°	7512.9	7483.3	7431.6	7410.5	7381.0	7499.2	7771.4	7727.1	7651.1	7740.8	5942.6
45°	7416.8	7391.5	7390.5	7454.8	7523.4	7675.4	8076.4	8040.5	7848.5	7894.9	6110.4
47.5°	7122.4	7100.2	7160.4	7329.3	7498.1	7719.7	8212.6	8218.9	7988.8	7959.3	6219.0
50°	6486.0	6471.3	6645.4	6965.2	7256.4	7581.5	8169.3	8242.1	8022.6	7939.2	6205.3
52.5°	5192.2	5260.8	5639.7	6173.7	6739.3	7338.8	8008.9	8103.9	7860.1	7807.3	6131.5
55°	3554.3	3586.0	3964.9	4744.8	5641.8	6813.2	7640.6	7787.3	7668.0	7785.2	6208.5
57.5°	1840.5	1865.8	2164.5	2856.8	3826.6	5384.3	6618.0	7099.2	7280.7	7897.0	6448.1
60°	755.6	776.7	900.2	1234.7	1930.2	3135.4	4762.7	5476.1	5902.5	7212.1	5726.2
62.5°	548.8	559.3	618.4	736.6	1011.0	1536.6	2695.3	2958.1	3257.8	4520.0	3635.6
65°	462.2	473.8	521.3	593.1	737.7	942.4	1151.4	1157.7	1275.9	1841.5	1347.7
67.5°	387.3	397.9	440.1	501.3	596.3	669.1	618.4	619.5	617.4	668.0	645.9
70°	301.8	310.3	352.5	417.9	467.5	429.5	483.3	535.1	512.9	532.9	563.5
72.5°	220.6	230.1	267.0	316.6	303.9	306.0	391.5	444.3	431.6	453.8	482.3
75°	159.4	165.7	184.7	158.3	166.7	201.6	275.4	303.9	316.6	335.6	360.9
77.5°	51.7	51.7	58.0	72.8	90.8	111.9	140.4	152.0	171.0	192.1	210.0
80°	26.4	27.4	32.7	40.1	50.7	64.4	82.3	87.6	97.1	108.7	116.1
82.5°	12.7	13.7	15.8	20.1	26.4	33.8	45.4	50.7	57.0	64.4	69.7
85°	3.2	3.2	4.2	6.3	8.4	12.7	16.9	20.1	25.3	30.6	33.8
87.5°	0.0	0.0	0.0	0.0	0.0	1.1	3.2	4.2	5.3	6.3	8.4
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°	1962.9	1962.9	1962.9	1962.9	1962.9	1962.9	1962.9	1962.9	1962.9	1962.9	1962.9
2.5°	1999.8	1940.7	1864.8	1800.4	1741.3	1695.9	1656.9	1637.9	1619.9	1607.3	1611.5
5°	2054.7	1953.4	1812.0	1713.9	1653.7	1623.1	1602.0	1591.4	1589.3	1580.9	1577.7
7.5°	2134.9	1990.3	1801.4	1702.2	1662.1	1646.3	1634.7	1628.4	1631.5	1623.1	1619.9
10°	2234.1	2051.6	1827.8	1740.2	1705.4	1693.8	1681.1	1672.7	1668.5	1655.8	1653.7
12.5°	2357.6	2127.5	1875.3	1788.8	1754.0	1733.9	1717.0	1702.2	1692.7	1676.9	1672.7
15°	2490.6	2212.0	1931.3	1836.3	1795.1	1765.6	1738.1	1716.0	1699.1	1678.0	1674.8
17.5°	2635.2	2300.6	1977.7	1869.0	1816.2	1777.2	1737.1	1704.4	1681.1	1653.7	1650.5
20°	2786.1	2390.3	2012.5	1884.8	1817.3	1764.5	1710.7	1667.4	1637.9	1610.4	1608.3
22.5°	2942.3	2472.6	2033.6	1880.6	1800.4	1735.0	1670.6	1622.0	1587.2	1554.5	1552.4
25°	3099.5	2551.8	2038.9	1863.7	1766.6	1690.6	1626.3	1569.3	1530.2	1493.3	1489.1
27.5°	3258.9	2618.3	2026.2	1829.9	1721.2	1638.9	1574.5	1518.6	1478.5	1441.6	1435.2
30°	3428.8	2675.3	1998.8	1785.6	1668.5	1584.0	1520.7	1478.5	1440.5	1403.6	1397.3
32.5°	3610.3	2724.9	1959.7	1731.8	1607.3	1529.2	1482.7	1444.7	1406.8	1374.0	1367.7
35°	3826.6	2757.6	1901.7	1662.1	1550.3	1489.1	1457.4	1413.1	1366.7	1330.8	1327.6
37.5°	4050.3	2782.9	1832.0	1595.7	1500.7	1465.9	1439.5	1379.3	1321.3	1278.0	1272.7
40°	4266.7	2804.0	1745.5	1533.4	1455.3	1449.0	1413.1	1338.2	1237.9	1189.4	1185.1
42.5°	4468.3	2810.3	1654.8	1466.9	1414.1	1411.0	1370.9	1254.8	1177.7	1147.1	1142.9
45°	4606.5	2805.1	1560.8	1404.6	1373.0	1356.1	1313.9	1194.6	1147.1	1119.7	1114.4
47.5°	4708.9	2777.6	1455.3	1339.2	1326.5	1303.3	1212.6	1156.6	1112.3	1084.9	1079.6
50°	4690.9	2663.6	1348.7	1275.9	1270.6	1250.6	1138.7	1109.1	1070.1	1040.6	1036.3
52.5°	4598.1	2447.3	1240.0	1206.2	1216.8	1177.7	1085.9	1052.2	1018.4	984.6	977.2
55°	4621.3	2291.1	1157.7	1138.7	1157.7	1069.0	1026.8	991.0	959.3	926.6	920.2
57.5°	4722.6	2137.0	1070.1	1065.9	1085.9	985.7	950.9	905.5	860.1	833.7	833.7
60°	3965.9	1557.7	916.0	926.6	972.0	918.1	887.5	841.1	791.5	768.3	768.3
62.5°	2344.9	977.2	759.8	748.2	776.7	810.5	827.4	789.4	730.3	699.7	700.7
65°	1033.2	711.3	670.1	660.6	652.2	675.4	721.8	725.0	662.7	626.9	627.9
67.5°	636.4	643.8	626.9	619.5	612.1	607.9	603.6	605.8	588.9	556.2	555.1
70°	574.1	594.1	582.5	576.2	566.7	559.3	534.0	492.8	464.3	455.9	465.4
72.5°	493.9	521.3	515.0	511.8	500.2	482.3	448.5	408.4	374.6	353.5	357.8
75°	372.5	394.7	397.9	398.9	386.3	369.4	334.5	300.8	271.2	249.1	254.3
77.5°	214.2	226.9	230.1	233.2	223.7	217.4	194.2	169.9	154.1	130.9	137.2
80°	119.3	124.5	124.5	125.6	120.3	112.9	97.1	83.4	76.0	65.4	66.5
82.5°	71.8	73.9	74.9	76.0	72.8	65.4	53.8	44.3	40.1	34.8	33.8
85°	34.8	36.9	36.9	38.0	32.7	28.5	22.2	16.9	14.8	10.6	11.6
87.5°	8.4	9.5	9.5	8.4	7.4	5.3	3.2	1.1	0.0	0.0	0.0
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)