

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: P637340

Luminaire Tested: GWS-SA4C-750-U-T2R-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P637340  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-11)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4C-750-U-T2R-W  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS  
Light Source: (64) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20247.2 lumens  
Efficiency: N/A  
Efficacy: 157.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 128.5  
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

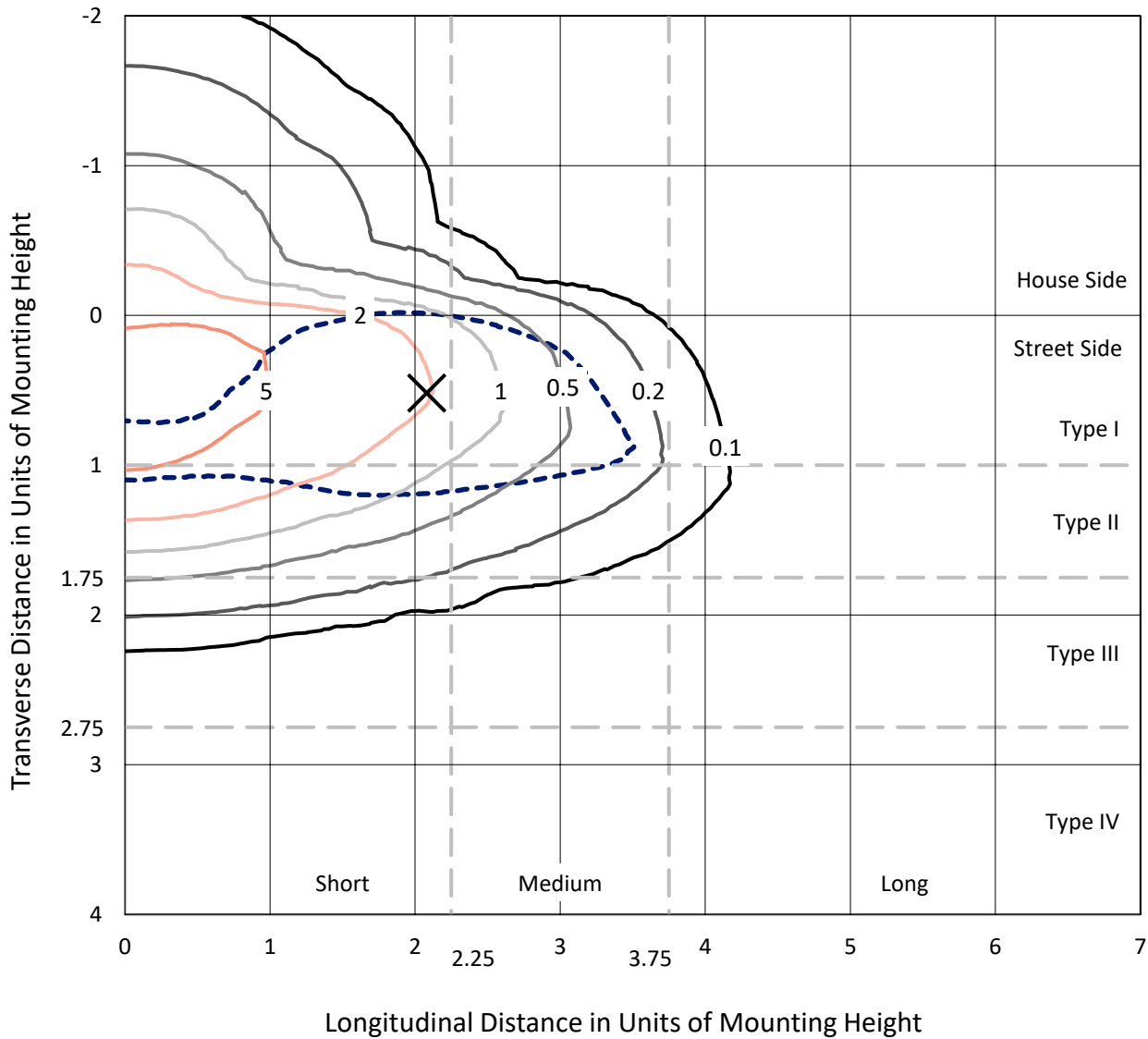


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### Iso-Footcandle Lines of Horizontal Illumination

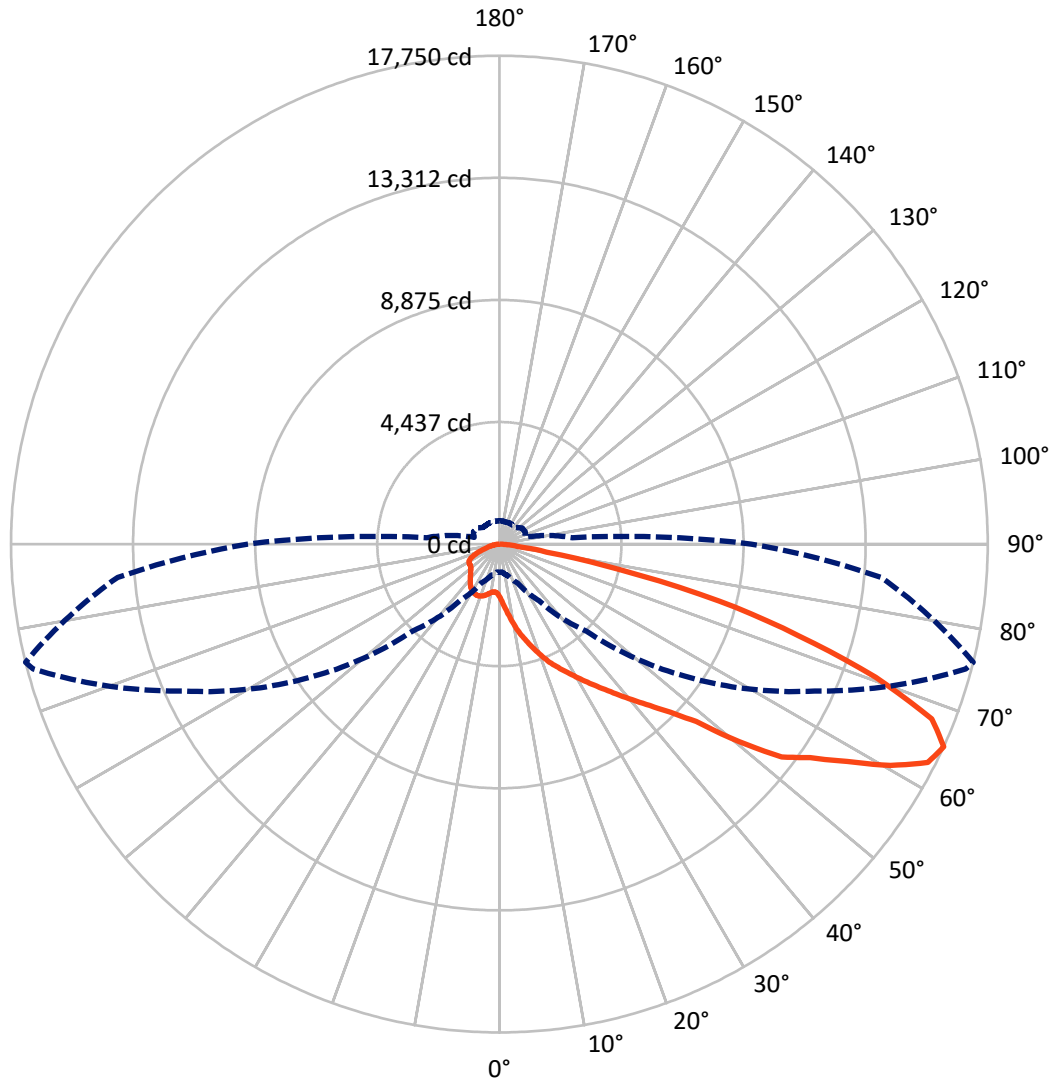
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3384.3	0.0	3384.3
	% Fixture	16.7	0.0	16.7
<b>Street Side</b>	Lumens	16862.9	0.0	16862.9
	% Fixture	83.3	0.0	83.3
<b>Total</b>	Lumens	20247.2	0.0	20247.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	227.8	1.1
10°-20°	867.6	4.3
20°-30°	1690.9	8.4
30°-40°	2827.9	14.0
40°-50°	4049.0	20.0
50°-60°	4793.5	23.7
60°-70°	3985.8	19.7
70°-80°	1631.1	8.1
80°-90°	173.7	0.9
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°	20247.2	100.0
0°-180°	20247.2	100.0

**Coefficient of Utilization**



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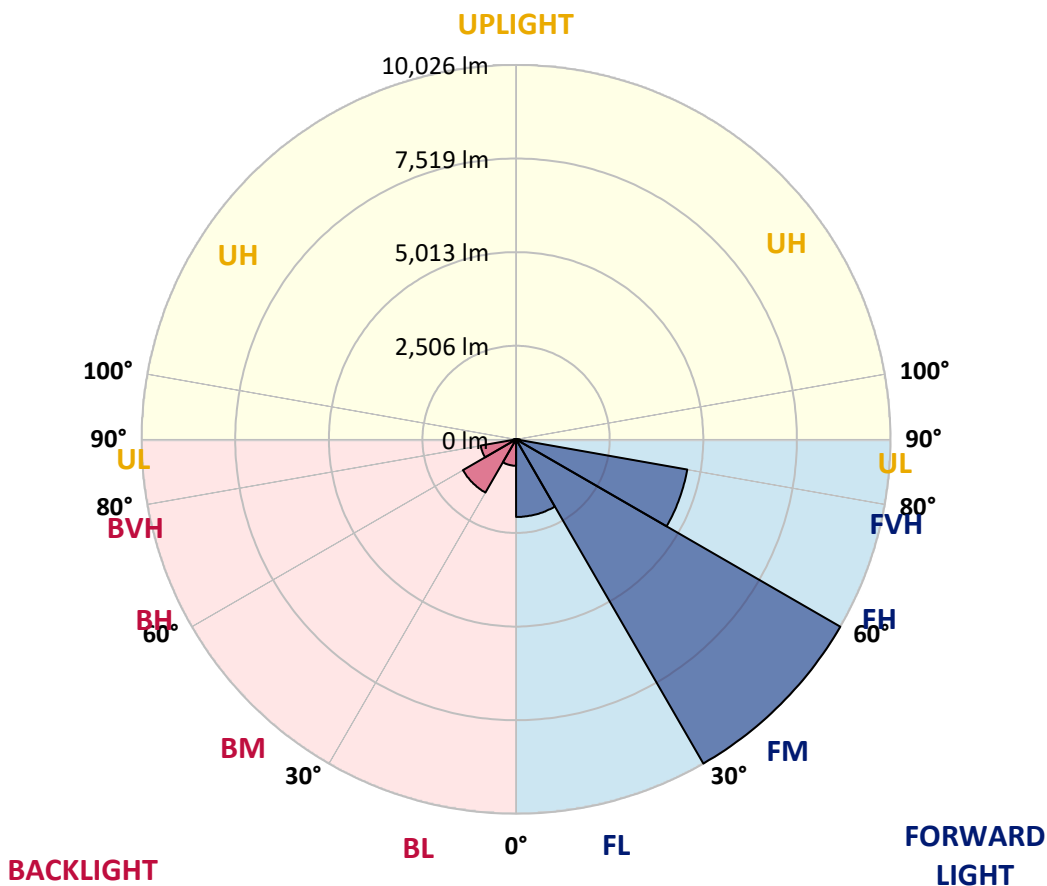
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2078.3	10.3			
FM (30°-60°)	10025.6	49.5			
FH (60°-80°)	4655.3	23.0			G2/5000
FVH (80°-90°)	103.6	0.5			G2/225
BL (0°-30°)	708.0	3.5	B2/1000		
BM (30°-60°)	1644.7	8.1	B2/2500		
BH (60°-80°)	961.5	4.7	B2/1000		G2/1000
BVH (80°-90°)	70.1	0.3			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°	65°	75°	76°	85°
0°	1917.3	1917.3	1917.3	1917.3	1917.3	1917.3	1917.3	1917.3	1917.3	1917.3	1917.3
2.5°	2687.4	2697.4	2664.6	2653.2	2576.4	2472.5	2385.6	2254.7	2133.7	2115.2	2007.0
5°	3413.3	3370.6	3333.6	3309.4	3202.7	3084.5	2900.9	2654.7	2397.0	2365.7	2132.3
7.5°	3844.6	3837.5	3792.0	3777.7	3695.2	3577.0	3387.7	3081.7	2707.3	2656.1	2301.7
10°	4190.5	4186.3	4163.5	4176.3	4100.8	3985.6	3801.9	3485.9	3047.5	2996.3	2491.0
12.5°	4492.3	4499.4	4495.1	4542.1	4503.7	4414.0	4223.3	3875.9	3387.7	3332.2	2721.6
15°	4712.9	4718.6	4740.0	4842.4	4863.8	4845.3	4651.7	4258.8	3723.6	3643.9	2959.3
17.5°	4775.5	4786.9	4838.2	5003.3	5118.6	5195.5	5051.7	4648.9	4053.9	3967.0	3201.3
20°	4859.5	4872.3	4923.6	5095.8	5265.2	5440.3	5414.7	5044.6	4387.0	4315.8	3446.1
22.5°	5248.1	5238.2	5215.4	5297.9	5418.9	5636.7	5700.8	5424.6	4731.4	4663.1	3716.5
25°	5996.8	5978.3	5833.1	5757.7	5717.8	5850.2	5964.1	5770.5	5067.3	4964.9	3968.5
27.5°	6822.4	6812.4	6627.4	6448.1	6203.2	6146.3	6213.2	6072.3	5393.3	5289.4	4187.7
30°	7603.9	7574.0	7380.4	7155.5	6828.1	6583.3	6485.1	6368.3	5750.6	5642.4	4443.9
32.5°	8302.8	8264.3	8036.6	7787.5	7444.4	7155.5	6862.3	6682.9	6154.8	6029.6	4705.8
35°	8876.4	8838.0	8604.5	8339.8	7962.6	7749.1	7347.6	7024.5	6566.2	6439.5	5014.7
37.5°	9320.5	9284.9	9041.5	8781.0	8452.2	8282.8	7934.1	7408.9	7040.2	6907.8	5342.1
40°	9569.6	9544.0	9349.0	9142.6	8866.4	8719.8	8563.2	7894.2	7571.1	7438.7	5727.8
42.5°	9645.0	9628.0	9491.3	9384.6	9198.1	9087.1	9176.7	8465.0	8137.6	8022.3	6161.9
45°	9455.7	9455.7	9415.9	9470.0	9478.5	9477.1	9791.6	9109.8	8833.7	8707.0	6774.0
47.5°	8971.8	9003.1	9061.4	9327.6	9608.0	9842.9	10510.5	9969.6	9729.0	9625.1	7640.9
50°	8086.4	8171.8	8371.1	8890.6	9487.0	10084.9	11190.9	11240.7	11469.8	11286.2	8916.2
52.5°	6789.7	6776.9	7285.0	8025.2	8934.8	10094.8	11565.2	12362.3	12978.7	12852.0	9864.2
55°	5396.2	5374.8	5848.8	6869.4	8087.8	9713.4	11790.1	12876.2	13815.6	13701.8	10716.9
57.5°	4132.2	4105.1	4526.4	5447.4	6892.2	8903.4	11747.4	13488.2	14967.2	14908.8	11875.5
60°	2844.0	2811.2	3205.5	4011.2	5477.3	7665.1	11274.8	13802.8	16315.1	16335.1	13115.3
62.5°	1708.1	1689.6	1975.7	2600.6	3940.0	6130.6	10168.9	13612.1	17388.4	17478.1	13912.4
65°	1030.5	1017.7	1185.7	1551.5	2499.5	4473.8	8463.6	12637.0	17543.5	17749.9	13930.9
67.5°	750.1	751.6	800.0	945.1	1457.6	2889.5	6351.3	10889.1	16735.0	16948.6	13052.7
70°	651.9	654.8	680.4	713.1	881.1	1654.0	4129.3	8596.0	14345.1	14510.3	10947.5
72.5°	579.3	579.3	596.4	613.5	688.9	1007.8	2212.0	6008.2	11321.8	11365.9	8355.4
75°	509.6	505.3	513.9	522.4	597.8	704.6	1076.1	4186.3	8362.5	8260.1	5400.4
77.5°	405.7	401.4	402.8	411.4	479.7	503.9	545.2	2614.8	4712.9	4448.2	2385.6
80°	289.0	286.1	301.8	323.1	354.4	308.9	341.6	1265.4	1868.9	1739.4	925.2
82.5°	172.2	177.9	202.1	219.2	244.8	193.6	220.6	422.8	661.9	644.8	375.8
85°	24.2	25.6	72.6	84.0	105.3	75.4	116.7	190.7	264.8	283.3	132.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	10.0	34.2	75.4	76.9	32.7
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°	1917.3	1917.3	1917.3	1917.3	1917.3	1917.3	1917.3	1917.3	1917.3	1917.3	1917.3
2.5°	1951.5	1884.6	1789.2	1709.5	1642.6	1588.5	1543.0	1508.8	1498.9	1484.6	1484.6
5°	2022.7	1901.7	1730.9	1609.9	1540.1	1498.9	1470.4	1456.1	1449.0	1440.5	1436.2
7.5°	2120.9	1951.5	1720.9	1598.5	1544.4	1518.8	1500.3	1491.7	1486.0	1477.5	1477.5
10°	2256.1	2025.5	1752.2	1638.3	1595.6	1570.0	1548.7	1534.4	1521.6	1508.8	1506.0
12.5°	2402.7	2122.3	1809.2	1692.4	1646.9	1615.6	1585.7	1564.3	1548.7	1533.0	1528.7
15°	2565.0	2221.9	1870.4	1745.1	1688.2	1645.5	1609.9	1577.1	1555.8	1533.0	1530.2
17.5°	2724.4	2323.0	1921.6	1780.7	1708.1	1655.4	1604.2	1561.5	1534.4	1508.8	1501.7
20°	2915.1	2424.1	1957.2	1790.7	1703.8	1634.1	1572.9	1518.8	1488.9	1459.0	1454.7
22.5°	3090.2	2518.0	1974.3	1776.4	1671.1	1588.5	1517.4	1459.0	1426.3	1396.4	1390.7
25°	3259.6	2600.6	1967.2	1742.3	1621.3	1525.9	1451.9	1393.5	1362.2	1330.9	1322.3
27.5°	3423.3	2656.1	1938.7	1689.6	1558.6	1456.1	1385.0	1332.3	1305.3	1278.2	1266.8
30°	3584.1	2707.3	1894.6	1621.3	1478.9	1383.6	1325.2	1288.2	1261.1	1232.7	1224.1
32.5°	3746.4	2744.3	1827.7	1541.6	1397.8	1319.5	1283.9	1256.9	1228.4	1199.9	1191.4
35°	3910.1	2760.0	1746.5	1450.5	1329.5	1278.2	1265.4	1234.1	1195.7	1161.5	1150.1
37.5°	4105.1	2774.2	1645.5	1360.8	1269.7	1258.3	1255.4	1208.5	1162.9	1116.0	1103.1
40°	4340.0	2792.7	1541.6	1279.6	1221.3	1251.2	1239.8	1175.7	1084.6	1039.1	1024.9
42.5°	4627.5	2826.9	1433.4	1205.6	1185.7	1224.1	1211.3	1096.0	1034.8	1009.2	1002.1
45°	5050.3	2952.2	1325.2	1147.3	1158.7	1185.7	1165.8	1049.1	1024.9	1007.8	999.2
47.5°	5803.2	3144.3	1231.3	1103.1	1137.3	1151.5	1074.7	1036.2	1017.7	995.0	985.0
50°	6586.1	3228.3	1155.8	1076.1	1113.1	1120.2	1024.9	1019.2	1006.4	982.2	972.2
52.5°	7115.6	3216.9	1110.3	1066.1	1093.2	1066.1	1002.1	1000.7	992.1	963.6	952.3
55°	7713.5	3236.8	1090.3	1069.0	1084.6	975.0	973.6	977.9	973.6	942.3	936.6
57.5°	8520.5	3298.0	1080.4	1078.9	1078.9	930.9	946.6	952.3	943.7	929.5	925.2
60°	9296.3	3302.3	1061.9	1090.3	1074.7	903.9	915.3	920.9	911.0	908.1	906.7
62.5°	9588.1	3097.3	1020.6	1081.8	1057.6	874.0	882.5	885.4	875.4	882.5	881.1
65°	9154.0	2661.8	952.3	1040.5	1004.9	846.9	841.2	848.4	831.3	849.8	851.2
67.5°	8127.7	2115.2	848.4	962.2	930.9	817.0	805.7	805.7	777.2	805.7	804.2
70°	6553.4	1494.6	696.0	837.0	849.8	781.5	775.8	743.0	697.5	740.2	735.9
72.5°	4967.7	1073.3	548.0	661.9	731.6	731.6	733.1	677.5	624.9	644.8	627.7
75°	3147.2	755.8	438.4	506.7	573.6	642.0	674.7	572.2	525.2	516.7	508.2
77.5°	1417.7	496.8	341.6	388.6	407.1	506.7	616.3	492.5	428.4	409.9	404.2
80°	593.6	308.9	243.4	274.7	250.5	425.6	543.7	382.9	314.6	289.0	270.4
82.5°	260.5	183.6	155.2	148.0	156.6	316.0	405.7	254.8	196.4	266.2	269.0
85°	109.6	96.8	79.7	72.6	64.1	121.0	190.7	99.6	122.4	69.7	56.9
87.5°	25.6	28.5	21.4	14.2	8.5	1.4	0.0	0.0	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)