

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: P633873

Luminaire Tested: GWS-SA2F-750-U-T2R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633873
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-SA2F-750-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) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14604.7 lumens
Efficiency: N/A
Efficacy: 117.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

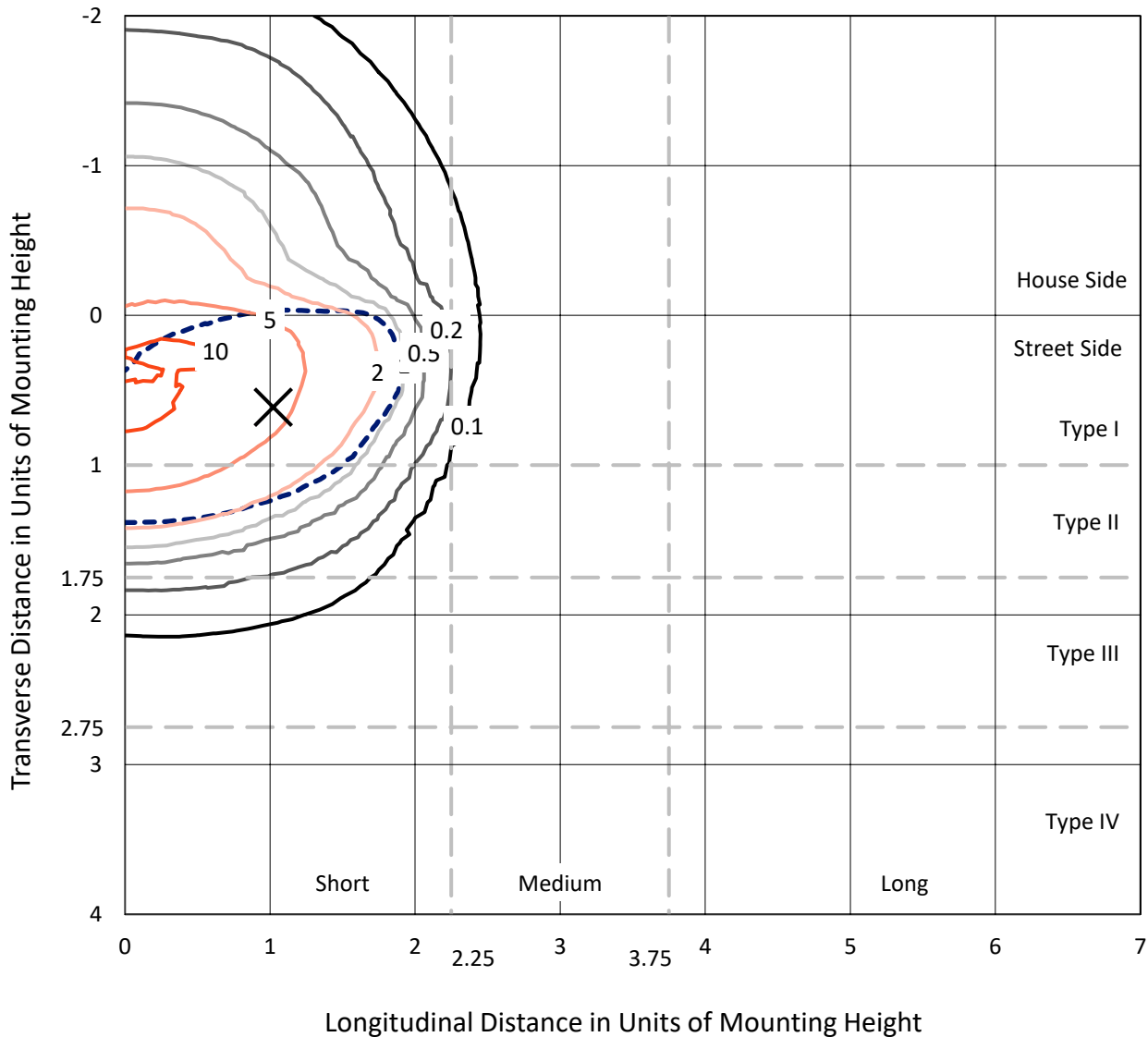
Input Watts (W): 124.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

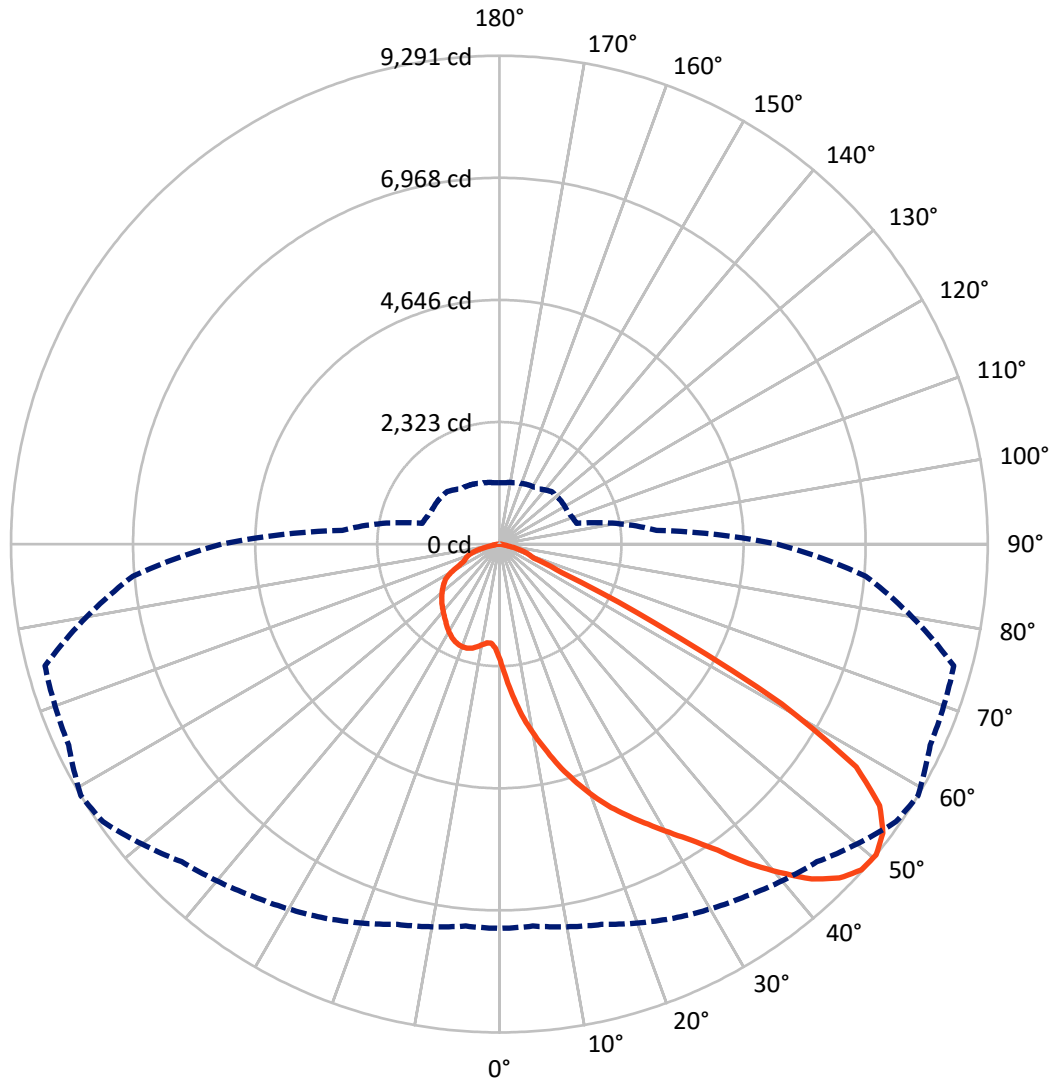
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 10.9 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
House Side	Lumens	3359.4	0.0	3359.4
	% Fixture	23.0	0.0	23.0
Street Side	Lumens	11245.3	0.0	11245.3
	% Fixture	77.0	0.0	77.0
Total	Lumens	14604.7	0.0	14604.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	248.2	1.7
10°-20°	901.1	6.2
20°-30°	1706.3	11.7
30°-40°	2829.7	19.4
40°-50°	3865.5	26.5
50°-60°	3508.8	24.0
60°-70°	1168.5	8.0
70°-80°	340.8	2.3
80°-90°	35.8	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°	14604.7	100.0
0°-180°	14604.7	100.0

Coefficient of Utilization



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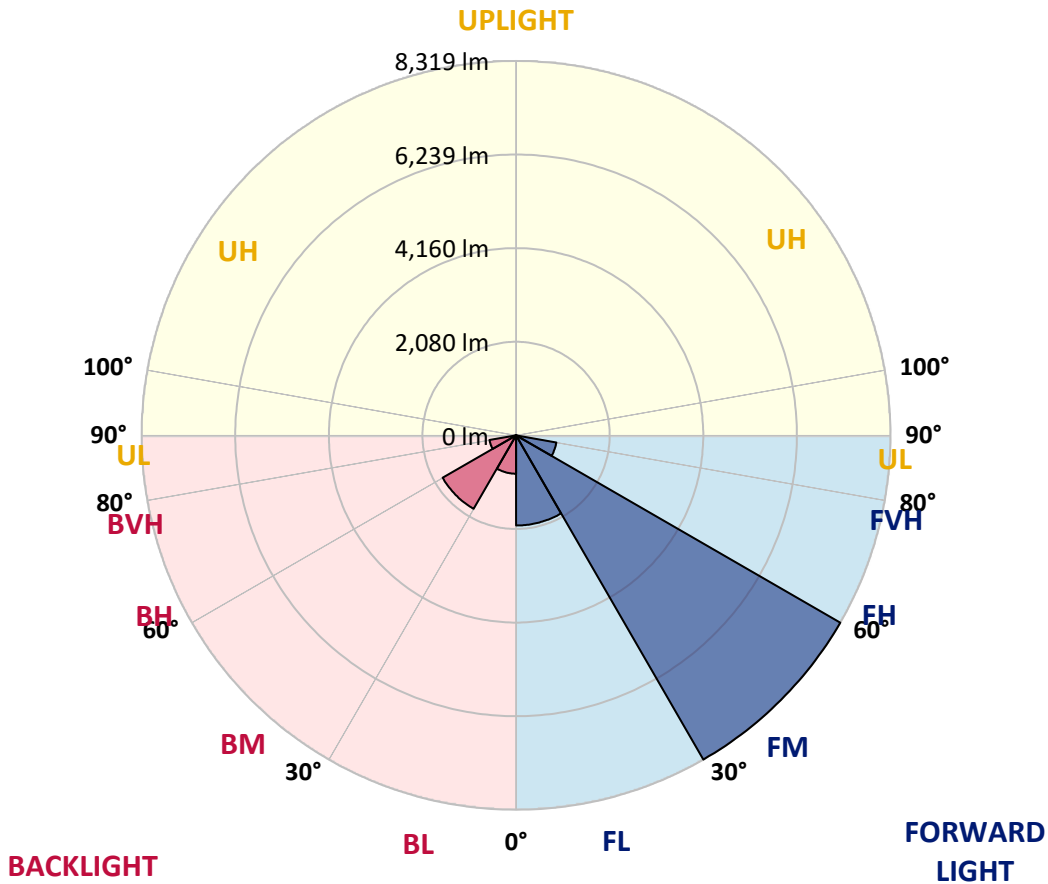
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2002.7	13.7			
FM (30°-60°)	8319.0	57.0			
FH (60°-80°)	909.7	6.2			G1/1800
FVH (80°-90°)	14.0	0.1			G1/100
BL (0°-30°)	853.0	5.8	B2/1000		
BM (30°-60°)	1884.9	12.9	B2/2500		
BH (60°-80°)	599.6	4.1	B2/1000		G2/1000
BVH (80°-90°)	21.8	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°	2212.7	2212.7	2212.7	2212.7	2212.7	2212.7	2212.7	2212.7	2212.7	2212.7	2212.7
2.5°	2867.0	2888.4	2855.1	2857.5	2774.2	2736.2	2629.1	2566.0	2524.4	2407.8	2301.9
5°	3445.2	3420.2	3394.0	3378.6	3306.0	3203.7	3070.4	2964.6	2867.0	2638.6	2418.5
7.5°	3799.7	3786.6	3768.8	3759.2	3687.9	3580.8	3447.6	3357.1	3215.6	2906.3	2560.1
10°	4100.7	4085.2	4074.5	4081.6	4023.3	3954.3	3809.2	3705.7	3546.3	3189.4	2731.4
12.5°	4333.8	4342.2	4345.7	4383.8	4358.8	4317.2	4167.3	4057.8	3880.6	3488.0	2932.4
15°	4518.2	4515.8	4557.5	4630.0	4670.5	4644.3	4524.2	4432.6	4216.1	3781.8	3149.0
17.5°	4561.0	4563.4	4628.9	4756.1	4888.2	4952.4	4884.6	4775.2	4561.0	4072.1	3373.8
20°	4595.5	4600.3	4668.1	4813.3	5006.0	5185.6	5196.3	5117.8	4933.4	4386.2	3602.2
22.5°	4813.3	4824.0	4841.8	4933.4	5107.1	5334.3	5459.2	5442.6	5287.9	4715.7	3848.5
25°	5385.5	5353.3	5266.5	5240.3	5306.9	5491.3	5704.3	5736.4	5660.3	5078.5	4113.7
27.5°	6092.1	6057.6	5929.1	5793.5	5649.6	5713.8	5941.0	6037.4	6038.6	5478.3	4380.2
30°	6733.3	6706.0	6601.3	6407.4	6158.7	6065.9	6233.7	6363.3	6440.7	5939.8	4683.6
32.5°	7281.7	7256.8	7115.2	6957.0	6714.3	6527.5	6588.2	6713.1	6893.9	6537.0	5060.7
35°	7743.3	7718.3	7582.7	7423.3	7198.5	7086.6	7065.2	7150.9	7385.2	7160.4	5493.7
37.5°	8118.0	8093.1	7951.5	7801.6	7630.3	7637.4	7669.6	7711.2	7845.6	7827.8	5956.5
40°	8360.7	8334.6	8233.4	8126.4	8018.1	8103.8	8263.2	8213.2	8284.6	8366.7	6382.4
42.5°	8469.0	8435.7	8377.4	8353.6	8320.3	8453.5	8760.4	8710.5	8624.8	8725.9	6698.8
45°	8360.7	8332.2	8331.0	8403.6	8480.9	8652.2	9104.3	9063.8	8847.3	8899.6	6888.0
47.5°	8028.8	8003.8	8071.7	8262.0	8452.3	8702.2	9257.7	9264.9	9005.5	8972.2	7010.5
50°	7311.5	7294.8	7491.1	7851.6	8179.9	8546.3	9208.9	9291.0	9043.6	8949.6	6995.0
52.5°	5853.0	5930.3	6357.4	6959.3	7597.0	8272.7	9028.1	9135.2	8860.4	8800.9	6911.8
55°	4006.7	4042.4	4469.4	5348.6	6359.8	7680.3	8612.9	8778.3	8643.9	8775.9	6998.6
57.5°	2074.7	2103.3	2439.9	3220.3	4313.6	6069.5	7460.2	8002.7	8207.3	8902.0	7268.7
60°	851.8	875.6	1014.8	1391.9	2175.8	3534.4	5368.8	6173.0	6653.6	8129.9	6454.9
62.5°	618.6	630.5	697.1	830.4	1139.7	1732.1	3038.3	3334.5	3672.4	5095.2	4098.3
65°	521.1	534.1	587.7	668.6	831.6	1062.3	1297.9	1305.0	1438.3	2075.9	1519.2
67.5°	436.6	448.5	496.1	565.1	672.1	754.2	697.1	698.3	695.9	753.0	728.1
70°	340.2	349.8	397.3	471.1	527.0	484.2	544.9	603.1	578.2	600.8	635.3
72.5°	248.6	259.3	301.0	356.9	342.6	345.0	441.4	500.8	486.6	511.5	543.7
75°	179.6	186.8	208.2	178.4	188.0	227.2	310.5	342.6	356.9	378.3	406.9
77.5°	58.3	58.3	65.4	82.1	102.3	126.1	158.2	171.3	192.7	216.5	236.7
80°	29.7	30.9	36.9	45.2	57.1	72.6	92.8	98.7	109.4	122.5	130.9
82.5°	14.3	15.5	17.8	22.6	29.7	38.1	51.2	57.1	64.2	72.6	78.5
85°	3.6	3.6	4.8	7.1	9.5	14.3	19.0	22.6	28.6	34.5	38.1
87.5°	0.0	0.0	0.0	0.0	0.0	1.2	3.6	4.8	5.9	7.1	9.5
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°	2212.7	2212.7	2212.7	2212.7	2212.7	2212.7	2212.7	2212.7	2212.7	2212.7	2212.7
2.5°	2254.4	2187.7	2102.1	2029.5	1962.9	1911.7	1867.7	1846.3	1826.1	1811.8	1816.6
5°	2316.2	2202.0	2042.6	1932.0	1864.2	1829.7	1805.9	1794.0	1791.6	1782.1	1778.5
7.5°	2406.6	2243.6	2030.7	1918.9	1873.7	1855.8	1842.7	1835.6	1839.2	1829.7	1826.1
10°	2518.5	2312.6	2060.4	1961.7	1922.4	1909.4	1895.1	1885.6	1880.8	1866.5	1864.2
12.5°	2657.6	2398.3	2114.0	2016.4	1977.2	1954.6	1935.5	1918.9	1908.2	1890.3	1885.6
15°	2807.5	2493.5	2177.0	2070.0	2023.6	1990.3	1959.3	1934.3	1915.3	1891.5	1887.9
17.5°	2970.5	2593.4	2229.4	2106.8	2047.4	2003.3	1958.1	1921.3	1895.1	1864.2	1860.6
20°	3140.6	2694.5	2268.6	2124.7	2048.5	1989.1	1928.4	1879.6	1846.3	1815.4	1813.0
22.5°	3316.7	2787.3	2292.4	2119.9	2029.5	1955.8	1883.2	1828.5	1789.2	1752.3	1749.9
25°	3493.9	2876.5	2298.4	2100.9	1991.4	1905.8	1833.2	1769.0	1725.0	1683.3	1678.6
27.5°	3673.6	2951.5	2284.1	2062.8	1940.3	1847.5	1774.9	1711.9	1666.7	1625.0	1617.9
30°	3865.1	3015.7	2253.2	2012.9	1880.8	1785.6	1714.3	1666.7	1623.8	1582.2	1575.1
32.5°	4069.7	3071.6	2209.1	1952.2	1811.8	1723.8	1671.4	1628.6	1585.8	1548.9	1541.8
35°	4313.6	3108.5	2143.7	1873.7	1747.6	1678.6	1642.9	1592.9	1540.6	1500.1	1496.6
37.5°	4565.8	3137.1	2065.2	1798.7	1691.7	1652.4	1622.7	1554.8	1489.4	1440.6	1434.7
40°	4809.7	3160.9	1967.7	1728.5	1640.5	1633.4	1592.9	1508.5	1395.4	1340.7	1336.0
42.5°	5036.9	3168.0	1865.3	1653.6	1594.1	1590.5	1545.3	1414.5	1327.6	1293.1	1288.4
45°	5192.7	3162.0	1759.5	1583.4	1547.7	1528.7	1481.1	1346.7	1293.1	1262.2	1256.3
47.5°	5308.1	3131.1	1640.5	1509.6	1495.4	1469.2	1366.9	1303.8	1253.9	1222.9	1217.0
50°	5287.9	3002.6	1520.3	1438.3	1432.3	1409.7	1283.6	1250.3	1206.3	1173.0	1168.2
52.5°	5183.2	2758.8	1397.8	1359.7	1371.6	1327.6	1224.1	1186.1	1148.0	1109.9	1101.6
55°	5209.4	2582.7	1305.0	1283.6	1305.0	1205.1	1157.5	1117.1	1081.4	1044.5	1037.4
57.5°	5323.6	2409.0	1206.3	1201.5	1224.1	1111.1	1071.9	1020.7	969.5	939.8	939.8
60°	4470.6	1755.9	1032.6	1044.5	1095.7	1035.0	1000.5	948.1	892.2	866.1	866.1
62.5°	2643.4	1101.6	856.5	843.4	875.6	913.6	932.7	889.8	823.2	788.7	789.9
65°	1164.6	801.8	755.4	744.7	735.2	761.4	813.7	817.3	747.1	706.6	707.8
67.5°	717.3	725.7	706.6	698.3	690.0	685.2	680.5	682.8	663.8	626.9	625.7
70°	647.2	669.8	656.7	649.5	638.8	630.5	602.0	555.6	523.4	513.9	524.6
72.5°	556.7	587.7	580.5	577.0	563.9	543.7	505.6	460.4	422.3	398.5	403.3
75°	419.9	444.9	448.5	449.7	435.4	416.4	377.1	339.0	305.7	280.8	286.7
77.5°	241.5	255.8	259.3	262.9	252.2	245.1	218.9	191.5	173.7	147.5	154.7
80°	134.4	140.4	140.4	141.6	135.6	127.3	109.4	94.0	85.7	73.8	74.9
82.5°	80.9	83.3	84.5	85.7	82.1	73.8	60.7	50.0	45.2	39.3	38.1
85°	39.3	41.6	41.6	42.8	36.9	32.1	25.0	19.0	16.7	11.9	13.1
87.5°	9.5	10.7	10.7	9.5	8.3	5.9	3.6	1.2	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)