

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: P633818

Luminaire Tested: GWS-SA2F-740-U-T2R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633818
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-740-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) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14277.6 lumens
Efficiency: N/A
Efficacy: 114.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

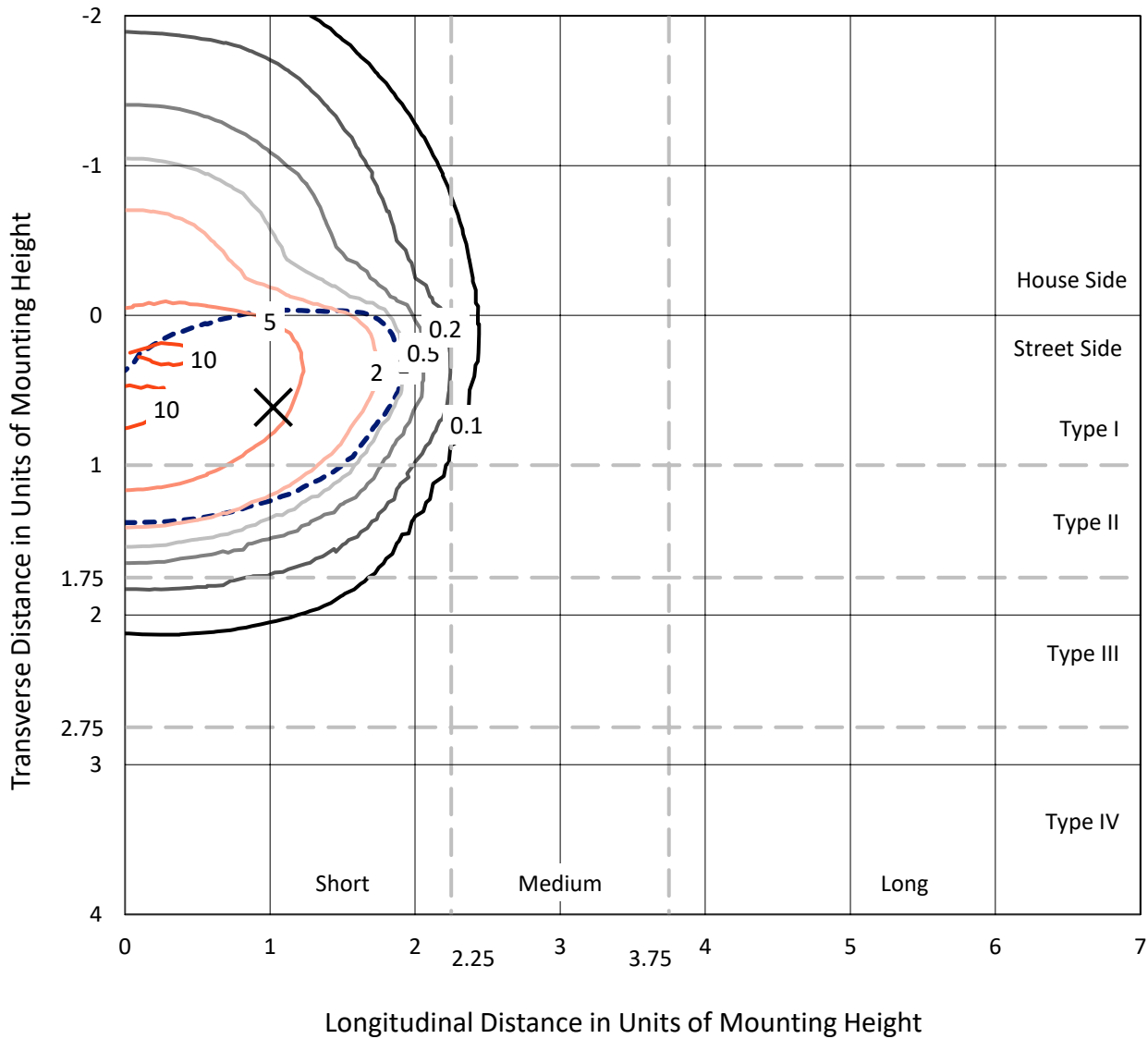
Input Watts (W): 124.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P633818
 CATALOG NUMBER: GWS-SA2F-740-U-T2R-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

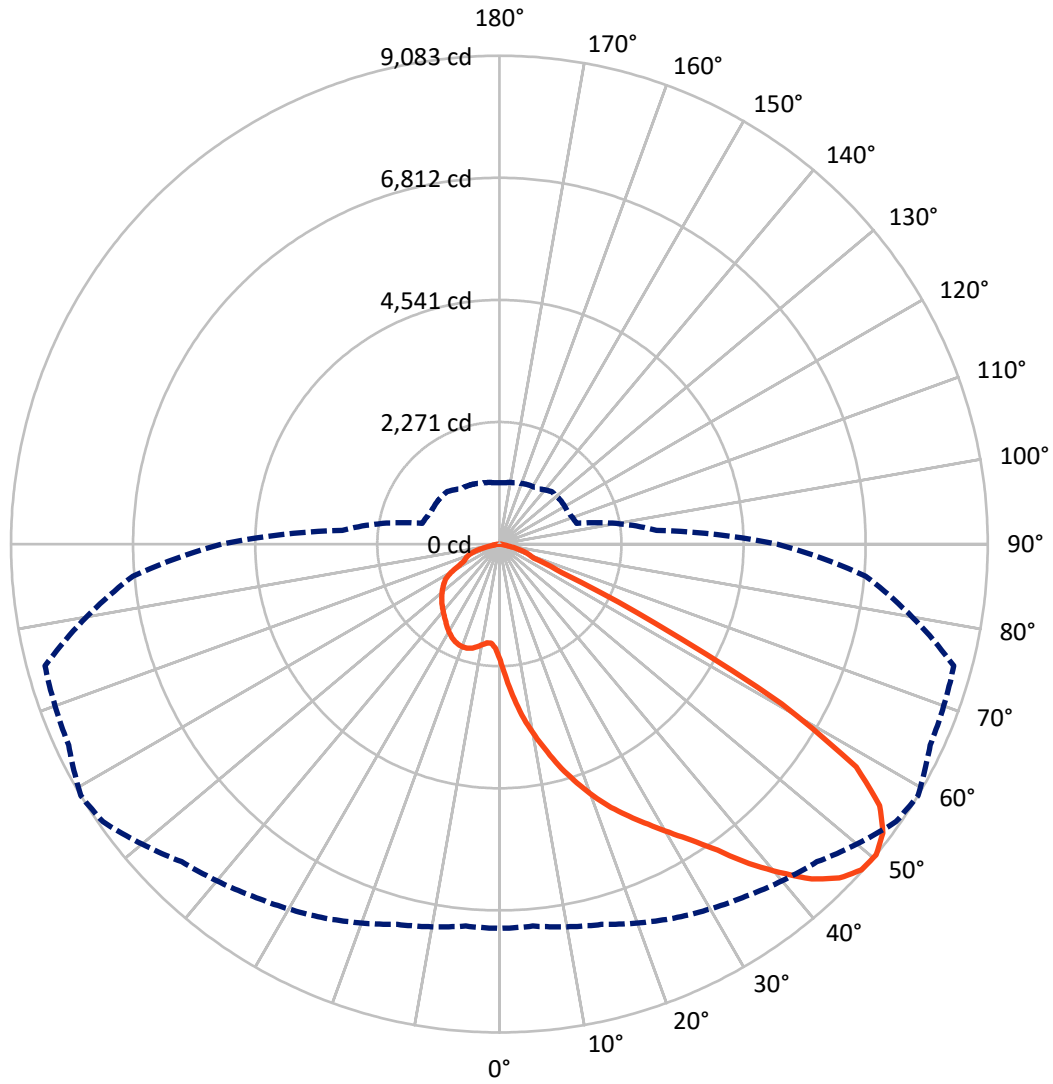
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 10.7 fc
 Type II - Short - N/A

REPORT NUMBER: P633818
CATALOG NUMBER: GWS-SA2F-740-U-T2R-W-GRSWH

Luminous Intensity Polar Plot



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

REPORT NUMBER: P633818

CATALOG NUMBER: GWS-SA2F-740-U-T2R-W-GRSWH

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3284.1	0.0	3284.1
	% Fixture	23.0	0.0	23.0
Street Side	Lumens	10993.5	0.0	10993.5
	% Fixture	77.0	0.0	77.0
Total	Lumens	14277.6	0.0	14277.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	242.7	1.7
10°-20°	880.9	6.2
20°-30°	1668.1	11.7
30°-40°	2766.3	19.4
40°-50°	3778.9	26.5
50°-60°	3430.2	24.0
60°-70°	1142.3	8.0
70°-80°	333.2	2.3
80°-90°	35.0	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°	14277.6	100.0
0°-180°	14277.6	100.0

Coefficient of Utilization



REPORT NUMBER: P633818

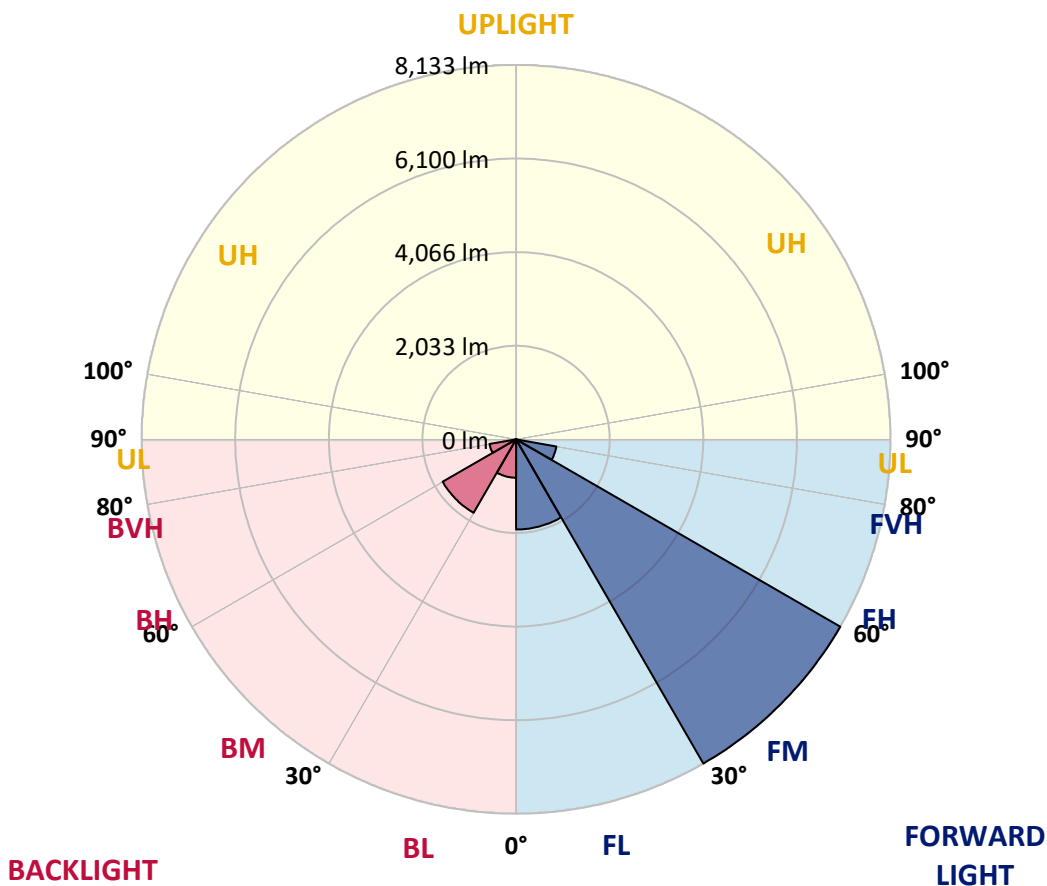
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1957.8	13.7			
FM (30°-60°)	8132.7	57.0			
FH (60°-80°)	889.3	6.2			G1/1800
FVH (80°-90°)	13.7	0.1			G1/100
BL (0°-30°)	833.9	5.8	B2/1000		
BM (30°-60°)	1842.7	12.9	B2/2500		
BH (60°-80°)	586.2	4.1	B2/1000		G2/1000
BVH (80°-90°)	21.3	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





REPORT NUMBER: P633818

CATALOG NUMBER: GWS-SA2F-740-U-T2R-W-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	2163.2	2163.2	2163.2	2163.2	2163.2	2163.2	2163.2	2163.2	2163.2	2163.2	2163.2
2.5°	2802.8	2823.7	2791.2	2793.5	2712.1	2674.9	2570.2	2508.6	2467.9	2353.9	2250.4
5°	3368.0	3343.6	3318.0	3302.9	3231.9	3131.9	3001.7	2898.2	2802.8	2579.5	2364.4
7.5°	3714.6	3701.8	3684.3	3675.0	3605.3	3500.6	3370.3	3282.0	3143.6	2841.2	2502.7
10°	4008.8	3993.7	3983.2	3990.2	3933.2	3865.8	3723.9	3622.7	3466.9	3118.0	2670.2
12.5°	4236.8	4244.9	4248.4	4285.6	4261.2	4220.5	4073.9	3967.0	3793.7	3409.9	2866.8
15°	4417.0	4414.7	4455.4	4526.3	4565.9	4540.3	4422.8	4333.3	4121.6	3697.1	3078.4
17.5°	4458.9	4461.2	4525.2	4649.6	4778.7	4841.5	4775.2	4668.2	4458.9	3980.9	3298.2
20°	4492.6	4497.3	4563.6	4705.4	4893.9	5069.5	5079.9	5003.2	4822.9	4287.9	3521.5
22.5°	4705.4	4715.9	4733.4	4822.9	4992.7	5214.8	5337.0	5320.7	5169.5	4610.1	3762.3
25°	5264.8	5233.4	5148.5	5123.0	5188.1	5368.4	5576.5	5607.9	5533.5	4964.8	4021.6
27.5°	5955.7	5921.9	5796.3	5663.8	5523.0	5585.8	5808.0	5902.2	5903.3	5355.6	4282.1
30°	6582.5	6555.8	6453.4	6263.9	6020.8	5930.1	6094.1	6220.8	6296.4	5806.8	4578.7
32.5°	7118.6	7094.2	6955.8	6801.2	6563.9	6381.3	6440.6	6562.7	6739.5	6390.6	4947.4
35°	7569.9	7545.5	7412.9	7257.0	7037.2	6927.9	6907.0	6990.7	7219.8	7000.0	5370.7
37.5°	7936.2	7911.8	7773.4	7626.9	7459.4	7466.4	7497.8	7538.5	7669.9	7652.5	5823.1
40°	8173.5	8147.9	8049.0	7944.4	7838.5	7922.3	8078.1	8029.3	8099.0	8179.3	6239.4
42.5°	8279.3	8246.7	8189.8	8166.5	8133.9	8264.2	8564.2	8515.4	8431.7	8530.5	6548.8
45°	8173.5	8145.6	8144.4	8215.3	8290.9	8458.4	8900.3	8860.8	8649.1	8700.3	6733.7
47.5°	7849.0	7824.6	7890.9	8077.0	8263.0	8507.3	9050.4	9057.3	8803.8	8771.3	6853.5
50°	7147.7	7131.4	7323.3	7675.7	7996.7	8354.9	9002.7	9082.9	8841.0	8749.2	6838.4
52.5°	5721.9	5797.5	6215.0	6803.5	7426.8	8087.4	8825.9	8930.6	8661.9	8603.8	6757.0
55°	3916.9	3951.8	4369.3	5228.8	6217.3	7508.2	8420.0	8581.7	8450.3	8579.4	6841.9
57.5°	2028.3	2056.2	2385.3	3148.2	4217.0	5933.6	7293.1	7823.4	8023.5	8702.6	7105.9
60°	832.7	856.0	992.0	1360.7	2127.1	3455.2	5248.6	6034.7	6504.6	7947.9	6310.4
62.5°	604.8	616.4	681.5	811.8	1114.1	1693.3	2970.3	3259.9	3590.1	4981.1	4006.5
65°	509.4	522.2	574.5	653.6	812.9	1038.5	1268.8	1275.8	1406.1	2029.4	1485.1
67.5°	426.8	438.4	485.0	552.4	657.1	737.3	681.5	682.7	680.3	736.2	711.7
70°	332.6	341.9	388.4	460.5	515.2	473.3	532.6	589.6	565.2	587.3	621.0
72.5°	243.1	253.5	294.2	348.9	334.9	337.3	431.5	489.6	475.7	500.1	531.5
75°	175.6	182.6	203.5	174.4	183.8	222.1	303.5	334.9	348.9	369.8	397.7
77.5°	57.0	57.0	64.0	80.2	100.0	123.3	154.7	167.5	188.4	211.7	231.4
80°	29.1	30.2	36.1	44.2	55.8	70.9	90.7	96.5	107.0	119.8	127.9
82.5°	14.0	15.1	17.4	22.1	29.1	37.2	50.0	55.8	62.8	70.9	76.8
85°	3.5	3.5	4.7	7.0	9.3	14.0	18.6	22.1	27.9	33.7	37.2
87.5°	0.0	0.0	0.0	0.0	0.0	1.2	3.5	4.7	5.8	7.0	9.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P633818

CATALOG NUMBER: GWS-SA2F-740-U-T2R-W-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2163.2	2163.2	2163.2	2163.2	2163.2	2163.2	2163.2	2163.2	2163.2	2163.2	2163.2
2.5°	2203.9	2138.7	2055.0	1984.1	1918.9	1868.9	1825.9	1805.0	1785.2	1771.2	1775.9
5°	2264.3	2152.7	1996.9	1888.7	1822.4	1788.7	1765.4	1753.8	1751.5	1742.2	1738.7
7.5°	2352.7	2193.4	1985.2	1875.9	1831.7	1814.3	1801.5	1794.5	1798.0	1788.7	1785.2
10°	2462.0	2260.8	2014.3	1917.8	1879.4	1866.6	1852.6	1843.3	1838.7	1824.7	1822.4
12.5°	2598.1	2344.6	2066.6	1971.3	1932.9	1910.8	1892.2	1875.9	1865.4	1848.0	1843.3
15°	2744.7	2437.6	2128.3	2023.6	1978.2	1945.7	1915.4	1891.0	1872.4	1849.2	1845.7
17.5°	2904.0	2535.3	2179.4	2059.7	2001.5	1958.5	1914.3	1878.2	1852.6	1822.4	1818.9
20°	3070.3	2634.2	2217.8	2077.1	2002.7	1944.5	1885.2	1837.5	1805.0	1774.7	1772.4
22.5°	3242.4	2724.9	2241.1	2072.4	1984.1	1912.0	1841.0	1787.5	1749.1	1713.1	1710.8
25°	3415.7	2812.1	2246.9	2053.8	1946.8	1863.1	1792.2	1729.4	1686.3	1645.6	1641.0
27.5°	3591.3	2885.4	2232.9	2016.6	1896.8	1806.1	1735.2	1673.5	1629.3	1588.6	1581.7
30°	3778.5	2948.2	2202.7	1967.8	1838.7	1745.6	1675.9	1629.3	1587.5	1546.8	1539.8
32.5°	3978.6	3002.8	2159.7	1908.5	1771.2	1685.2	1634.0	1592.1	1550.3	1514.2	1507.2
35°	4217.0	3038.9	2095.7	1831.7	1708.4	1641.0	1606.1	1557.2	1506.1	1466.5	1463.0
37.5°	4463.5	3066.8	2018.9	1758.4	1653.8	1615.4	1586.3	1520.0	1456.1	1408.4	1402.6
40°	4702.0	3090.1	1923.6	1689.8	1603.8	1596.8	1557.2	1474.7	1364.2	1310.7	1306.0
42.5°	4924.1	3097.0	1823.6	1616.6	1558.4	1554.9	1510.7	1382.8	1297.9	1264.2	1259.5
45°	5076.4	3091.2	1720.1	1547.9	1513.0	1494.4	1447.9	1316.5	1264.2	1233.9	1228.1
47.5°	5189.3	3061.0	1603.8	1475.8	1461.9	1436.3	1336.3	1274.6	1225.8	1195.6	1189.7
50°	5169.5	2935.4	1486.3	1406.1	1400.2	1378.1	1254.9	1222.3	1179.3	1146.7	1142.1
52.5°	5067.1	2697.0	1366.5	1329.3	1340.9	1297.9	1196.7	1159.5	1122.3	1085.1	1076.9
55°	5092.7	2524.8	1275.8	1254.9	1275.8	1178.1	1131.6	1092.0	1057.2	1021.1	1014.1
57.5°	5204.4	2355.1	1179.3	1174.6	1196.7	1086.2	1047.9	997.8	947.8	918.8	918.8
60°	4370.5	1716.6	1009.5	1021.1	1071.1	1011.8	978.1	926.9	872.2	846.7	846.7
62.5°	2584.2	1076.9	837.4	824.6	856.0	893.2	911.8	869.9	804.8	771.1	772.2
65°	1138.6	783.9	738.5	728.0	718.7	744.3	795.5	799.0	730.4	690.8	692.0
67.5°	701.3	709.4	690.8	682.7	674.5	669.9	665.2	667.6	648.9	612.9	611.7
70°	632.7	654.8	642.0	635.0	624.5	616.4	588.5	543.1	511.7	502.4	512.9
72.5°	544.3	574.5	567.5	564.0	551.3	531.5	494.3	450.1	412.9	389.6	394.3
75°	410.5	435.0	438.4	439.6	425.7	407.0	368.7	331.5	298.9	274.5	280.3
77.5°	236.1	250.0	253.5	257.0	246.6	239.6	214.0	187.2	169.8	144.2	151.2
80°	131.4	137.2	137.2	138.4	132.6	124.4	107.0	91.9	83.7	72.1	73.3
82.5°	79.1	81.4	82.6	83.7	80.2	72.1	59.3	48.8	44.2	38.4	37.2
85°	38.4	40.7	40.7	41.9	36.1	31.4	24.4	18.6	16.3	11.6	12.8
87.5°	9.3	10.5	10.5	9.3	8.1	5.8	3.5	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)