

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: P633594

Luminaire Tested: GWS-SA2F-722-U-T2-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633594
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-21)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2F-722-U-T2-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSALLED GLARE SHIELD, WH
Light Source: (32) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9962.5 lumens
Efficiency: N/A
Efficacy: 80.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

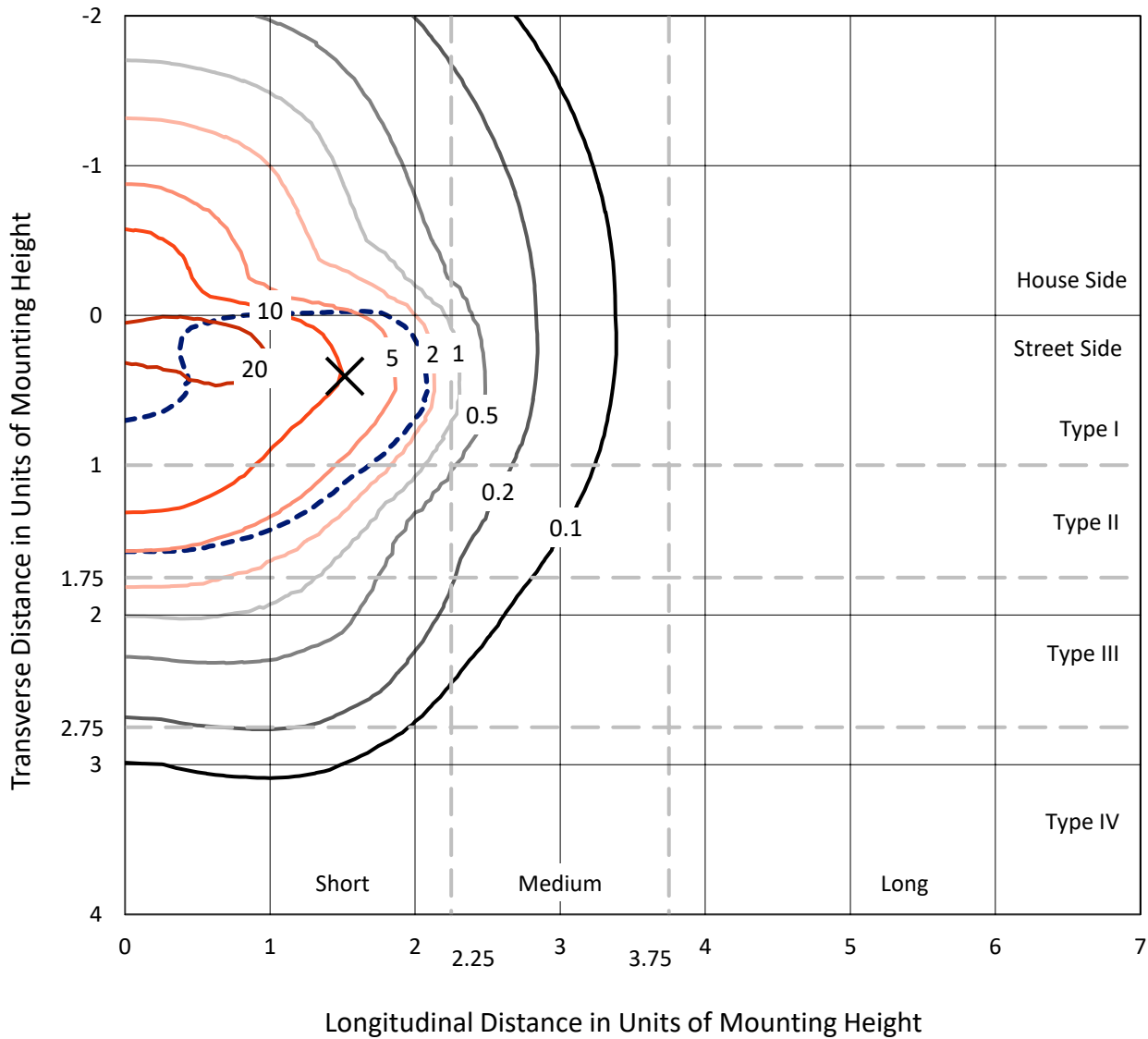
Input Watts (W): 124.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

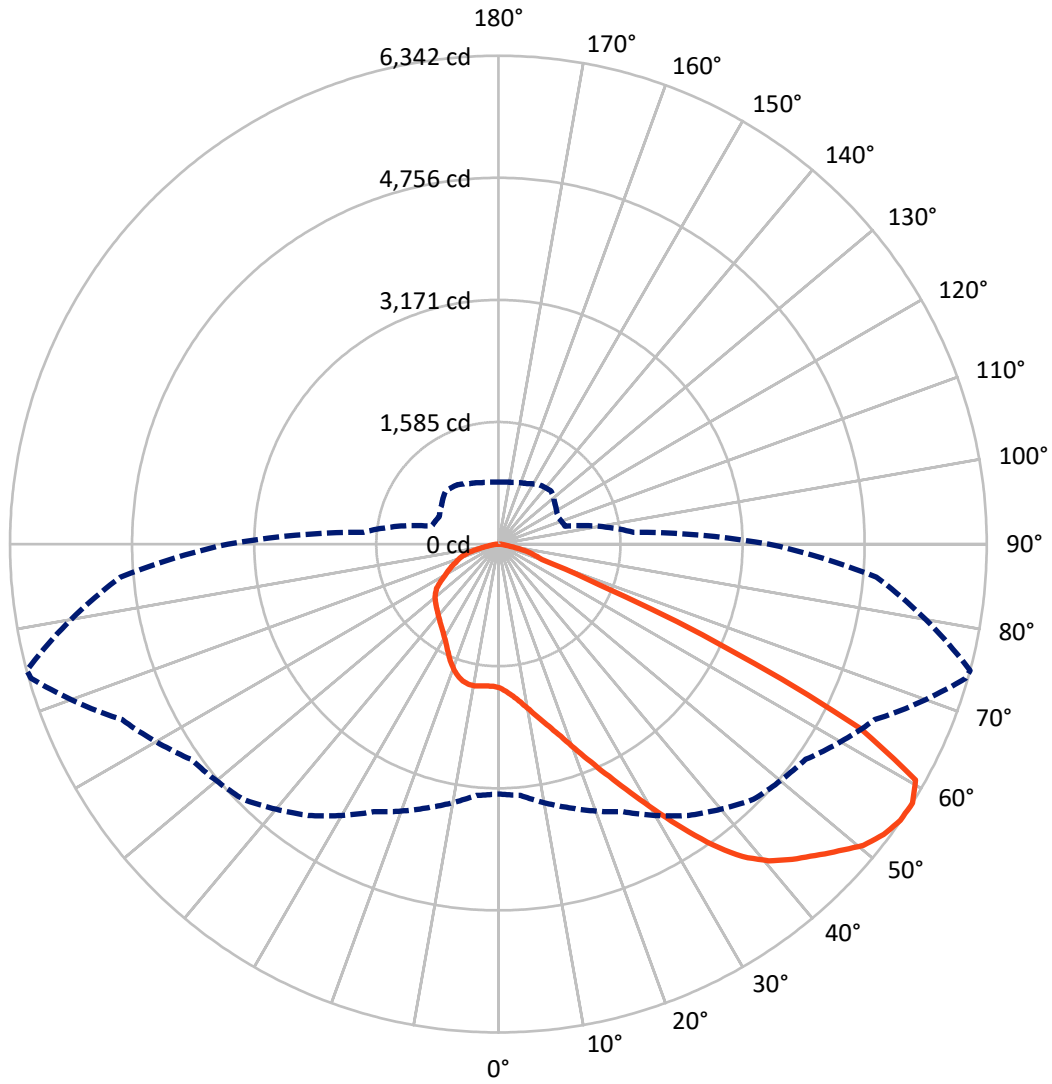
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 26.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2695.0	0.0	2695.0
	% Fixture	27.1	0.0	27.1
Street Side	Lumens	7267.4	0.0	7267.4
	% Fixture	72.9	0.0	72.9
Total	Lumens	9962.5	0.0	9962.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.7	1.9
10°-20°	594.4	6.0
20°-30°	1054.2	10.6
30°-40°	1613.8	16.2
40°-50°	2247.1	22.6
50°-60°	2574.7	25.8
60°-70°	1322.9	13.3
70°-80°	333.1	3.3
80°-90°	35.6	0.4
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°	9962.5	100.0
0°-180°	9962.5	100.0

Coefficient of Utilization



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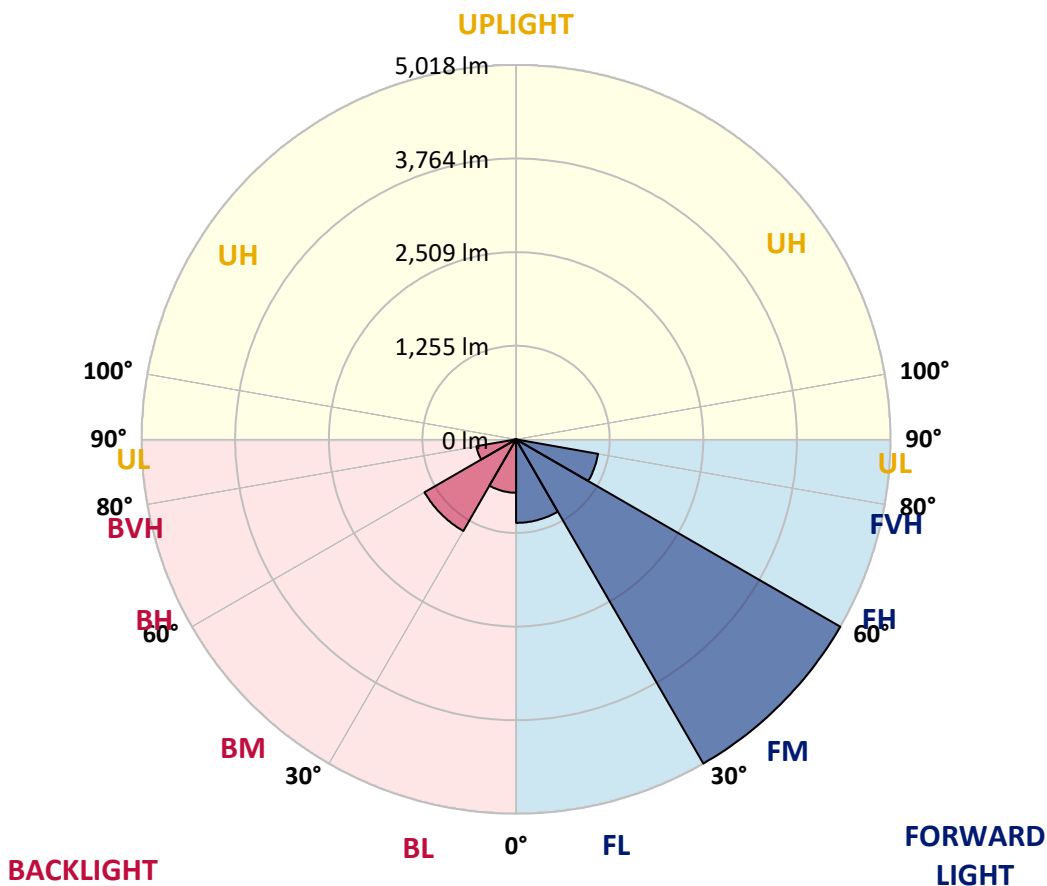
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1119.4	11.2			
FM (30°-60°)	5018.2	50.4			
FH (60°-80°)	1116.7	11.2			G1/1800
FVH (80°-90°)	13.2	0.1			G1/100
BL (0°-30°)	716.0	7.2	B2/1000		
BM (30°-60°)	1417.3	14.2	B2/2500		
BH (60°-80°)	539.3	5.4	B2/1000		G2/1000
BVH (80°-90°)	22.4	0.2			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°	74°	75°	85°
0°	1865.7	1865.7	1865.7	1865.7	1865.7	1865.7	1865.7	1865.7	1865.7	1865.7	1865.7
2.5°	2004.5	2009.7	2004.5	2013.1	1995.9	1988.2	1969.4	1941.1	1918.8	1915.4	1890.6
5°	2160.4	2171.6	2164.7	2161.3	2138.1	2121.0	2092.7	2036.2	1989.9	1983.1	1934.3
7.5°	2260.6	2268.4	2268.4	2270.9	2262.4	2242.7	2212.7	2145.9	2080.8	2070.5	1996.8
10°	2294.1	2300.0	2311.2	2332.6	2349.7	2355.7	2336.0	2271.8	2192.1	2181.8	2079.0
12.5°	2301.8	2308.6	2325.7	2365.2	2412.3	2455.1	2458.5	2411.4	2322.3	2311.2	2174.1
15°	2316.3	2323.2	2346.3	2395.1	2464.5	2546.8	2597.3	2564.7	2466.2	2454.2	2282.1
17.5°	2314.6	2322.3	2356.6	2421.7	2515.1	2634.1	2731.8	2745.5	2643.6	2623.0	2404.6
20°	2310.3	2317.2	2354.0	2433.7	2549.3	2712.9	2889.4	2960.5	2850.9	2832.0	2547.6
22.5°	2344.6	2352.3	2380.6	2446.5	2567.3	2773.8	3035.0	3206.4	3096.7	3070.2	2712.1
25°	2421.7	2432.8	2450.0	2495.4	2599.9	2827.7	3184.1	3484.8	3372.5	3340.9	2891.1
27.5°	2540.8	2554.5	2578.5	2599.9	2672.7	2896.3	3332.3	3796.6	3684.4	3651.0	3080.4
30°	2686.4	2704.4	2735.2	2749.8	2799.5	2997.3	3493.3	4117.8	4052.7	4006.5	3293.7
32.5°	2887.7	2912.5	2941.7	2945.9	2975.9	3150.7	3652.7	4436.5	4435.6	4403.1	3536.2
35°	3149.8	3176.4	3182.4	3188.4	3202.9	3361.4	3845.4	4726.9	4839.1	4801.4	3800.0
37.5°	3435.9	3474.5	3483.9	3457.4	3477.9	3615.0	4062.1	4959.9	5190.3	5150.1	4055.3
40°	3741.8	3757.2	3782.9	3740.9	3766.6	3905.4	4274.6	5108.9	5452.4	5409.6	4256.6
42.5°	3961.1	3989.3	4027.9	4012.4	4027.0	4153.8	4423.6	5180.9	5639.2	5596.4	4401.4
45°	4199.2	4207.8	4232.6	4229.2	4237.7	4356.0	4530.7	5212.6	5806.2	5767.7	4524.7
47.5°	4406.5	4419.3	4435.6	4416.8	4397.9	4475.0	4618.1	5240.0	5999.0	5952.7	4654.1
50°	4606.1	4617.2	4636.9	4582.1	4511.9	4531.6	4660.9	5277.7	6179.7	6147.2	4756.0
52.5°	4642.9	4654.9	4747.4	4758.6	4668.6	4599.2	4736.3	5360.8	6285.9	6265.4	4792.8
55°	4179.5	4200.9	4385.1	4596.7	4818.5	4796.3	4857.1	5404.5	6327.9	6333.1	4858.8
57.5°	3244.1	3274.9	3543.9	3834.3	4301.1	4687.5	4872.5	5393.3	6313.4	6341.6	4926.5
60°	2127.9	2145.9	2464.5	2790.0	3274.0	3808.6	4361.1	5192.9	6184.0	6224.3	4909.3
62.5°	1284.9	1305.5	1561.6	1808.3	2093.6	2450.8	2957.9	4173.5	5183.5	5273.4	3931.9
65°	896.9	924.3	1148.7	1351.8	1450.3	1376.6	1498.2	2330.9	3229.5	3267.2	2402.8
67.5°	650.2	669.0	853.2	1094.8	1203.6	972.3	741.0	1032.2	1406.6	1420.3	991.1
70°	425.7	447.2	614.2	833.5	982.6	788.1	554.2	558.5	591.9	598.8	575.7
72.5°	233.9	246.7	379.5	553.4	580.8	471.1	432.6	464.3	487.4	487.4	493.4
75°	120.8	131.9	155.0	182.5	220.2	257.8	311.8	358.9	383.8	385.5	382.9
77.5°	61.7	66.0	83.1	89.9	98.5	114.8	149.1	191.0	213.3	221.9	220.2
80°	29.1	30.8	35.1	41.1	50.5	64.2	80.5	95.9	109.6	111.4	120.8
82.5°	15.4	17.1	18.8	22.3	27.4	34.3	47.1	56.5	65.1	66.8	74.5
85°	6.0	6.9	7.7	8.6	12.0	14.6	19.7	26.6	32.6	32.6	38.5
87.5°	0.0	0.0	0.0	0.0	0.9	1.7	3.4	4.3	6.0	6.0	10.3
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°	1865.7	1865.7	1865.7	1865.7	1865.7	1865.7	1865.7	1865.7	1865.7	1865.7	1865.7
2.5°	1884.6	1859.7	1848.6	1830.6	1816.1	1799.8	1786.9	1777.5	1771.5	1768.1	1764.7
5°	1915.4	1877.7	1847.7	1811.8	1786.9	1762.9	1743.2	1729.5	1722.7	1717.5	1714.1
7.5°	1963.4	1912.9	1856.3	1800.6	1756.9	1718.4	1693.6	1679.0	1669.6	1666.1	1663.6
10°	2029.4	1959.1	1865.7	1777.5	1712.4	1670.4	1653.3	1646.4	1647.3	1645.6	1644.7
12.5°	2103.9	2007.9	1863.2	1736.4	1664.4	1639.6	1640.4	1651.6	1664.4	1667.9	1668.7
15°	2184.4	2055.9	1838.3	1683.3	1626.7	1629.3	1651.6	1678.1	1702.1	1711.5	1713.3
17.5°	2271.8	2096.2	1792.9	1625.0	1595.9	1623.3	1664.4	1708.1	1743.2	1758.7	1762.9
20°	2369.4	2130.4	1728.7	1567.6	1566.8	1612.2	1672.1	1729.5	1774.1	1794.6	1798.1
22.5°	2473.1	2151.9	1649.9	1514.5	1536.8	1597.6	1666.1	1726.1	1773.2	1793.8	1798.1
25°	2577.6	2158.7	1563.3	1465.7	1506.0	1574.5	1637.0	1685.0	1729.5	1747.5	1750.9
27.5°	2675.3	2139.0	1481.1	1423.7	1477.7	1540.2	1582.2	1607.9	1638.7	1652.4	1655.0
30°	2774.6	2099.6	1411.7	1390.3	1446.0	1493.1	1511.9	1513.7	1525.7	1525.7	1527.4
32.5°	2874.8	2041.3	1350.9	1357.8	1406.6	1437.4	1440.0	1420.3	1405.7	1381.7	1380.9
35°	2990.5	1982.2	1301.2	1320.9	1360.3	1379.2	1371.5	1333.8	1298.6	1259.2	1257.5
37.5°	3097.6	1921.4	1259.2	1283.2	1308.1	1321.8	1303.8	1258.4	1229.3	1189.0	1183.0
40°	3185.8	1866.6	1219.0	1243.8	1255.8	1267.8	1238.7	1201.8	1206.1	1183.9	1183.0
42.5°	3237.2	1813.5	1181.3	1200.1	1207.8	1216.4	1190.7	1163.3	1186.4	1169.3	1170.2
45°	3274.9	1767.2	1147.0	1153.9	1172.7	1185.6	1161.6	1130.7	1135.9	1069.9	1054.5
47.5°	3317.7	1741.5	1114.5	1107.6	1141.0	1163.3	1126.5	1081.9	1051.1	986.0	980.0
50°	3363.1	1732.1	1080.2	1061.4	1101.6	1123.0	1080.2	1024.5	984.3	949.1	945.7
52.5°	3378.5	1731.2	1037.4	1005.7	1045.9	1075.9	1039.9	983.4	935.4	901.2	899.5
55°	3439.4	1756.1	982.6	929.4	967.1	1028.8	1002.3	920.9	882.3	866.9	865.2
57.5°	3510.5	1760.4	896.0	846.3	898.6	971.4	938.0	867.8	825.8	806.9	805.2
60°	3481.3	1655.0	803.5	783.0	840.4	917.4	886.6	825.8	777.0	759.0	757.3
62.5°	2653.0	1168.4	735.8	728.1	777.8	839.5	833.5	770.1	723.9	711.0	709.3
65°	1595.9	820.7	670.7	669.9	705.0	764.1	771.8	720.4	671.6	653.6	653.6
67.5°	789.0	627.9	597.1	592.8	615.1	657.0	689.6	647.6	606.5	589.4	586.8
70°	557.7	553.4	543.1	531.1	535.4	552.5	566.2	531.1	487.4	470.3	466.9
72.5°	482.3	483.1	476.3	466.9	463.4	451.4	439.5	413.8	387.2	369.2	370.9
75°	374.3	376.1	380.3	376.9	367.5	354.6	341.8	309.2	287.8	270.7	267.3
77.5°	218.4	227.0	240.7	237.3	239.0	221.0	215.9	184.2	164.5	152.5	149.9
80°	123.4	128.5	134.5	138.8	133.6	125.9	114.8	97.7	91.7	83.1	81.4
82.5°	74.5	79.7	82.2	85.7	83.9	73.7	65.1	54.0	48.8	44.5	43.7
85°	37.7	41.1	43.7	45.4	40.3	33.4	30.0	24.0	20.6	18.0	18.0
87.5°	9.4	10.3	12.0	10.3	9.4	4.3	3.4	0.9	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)