

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: P636405

Luminaire Tested: GWS-SA3F-760-U-T2R-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P636405  
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-SA3F-760-U-T2R-W  
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS  
Light Source: (48) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

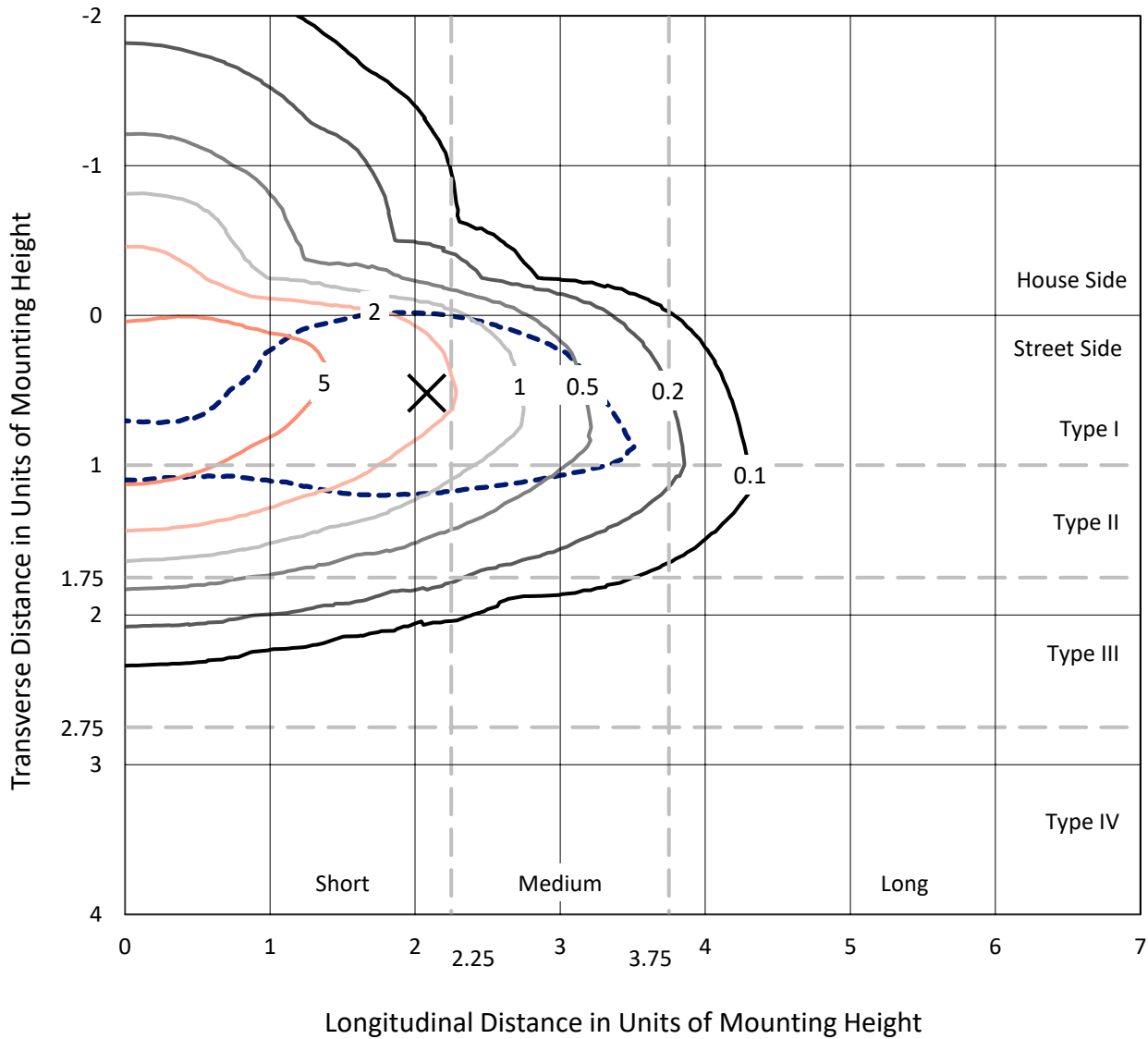
Lumens per Lamp: N/A  
Luminaire Lumens: 25153.5 lumens  
Efficiency: N/A  
Efficacy: 137.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 183.2  
Input Voltage (V): 120  
Input Current (Ain): 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

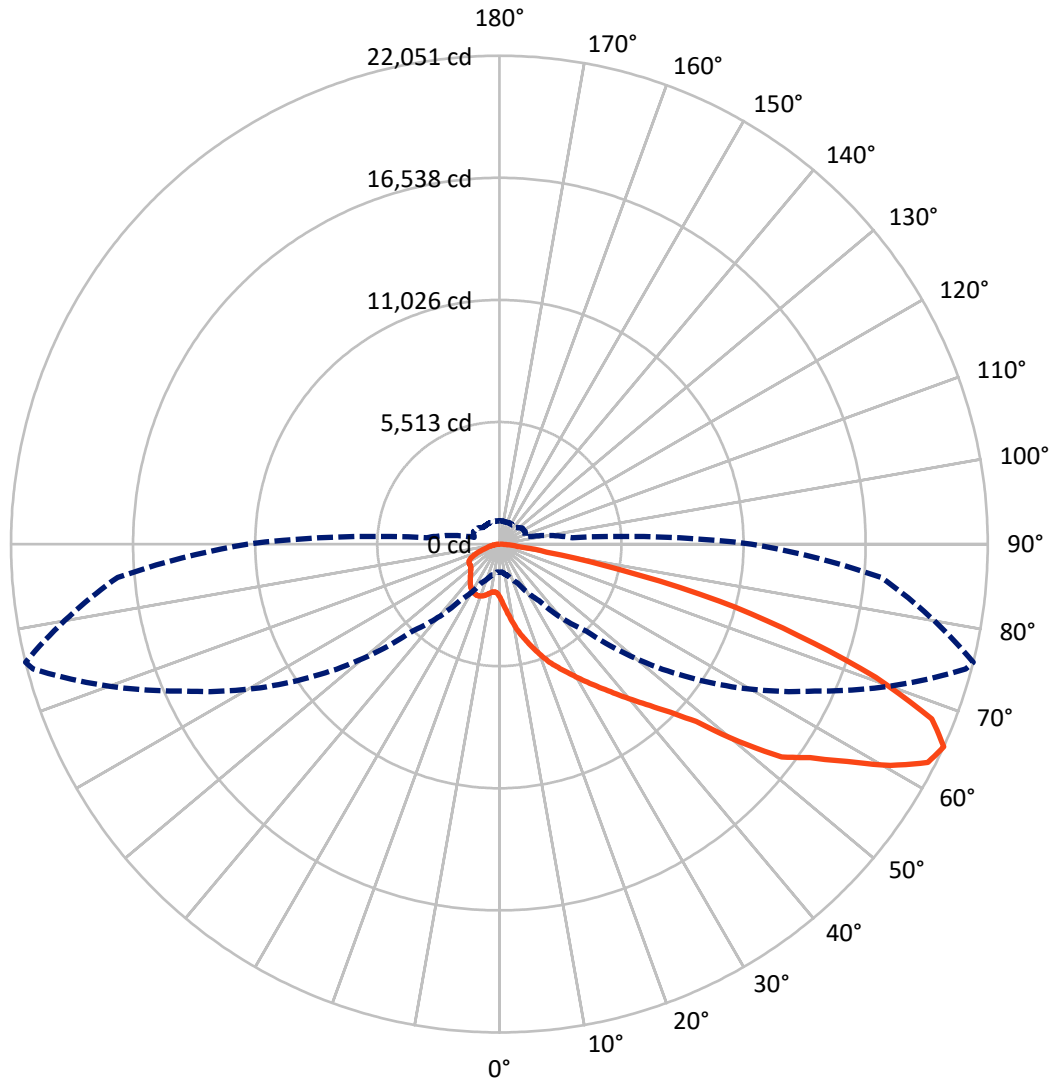
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 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	4204.4	0.0	4204.4
	% Fixture	16.7	0.0	16.7
<b>Street Side</b>	Lumens	20949.1	0.0	20949.1
	% Fixture	83.3	0.0	83.3
<b>Total</b>	Lumens	25153.5	0.0	25153.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	283.0	1.1
10°-20°	1077.9	4.3
20°-30°	2100.6	8.4
30°-40°	3513.2	14.0
40°-50°	5030.2	20.0
50°-60°	5955.0	23.7
60°-70°	4951.6	19.7
70°-80°	2026.3	8.1
80°-90°	215.7	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°	25153.5	100.0
0°-180°	25153.5	100.0

**Coefficient of Utilization**



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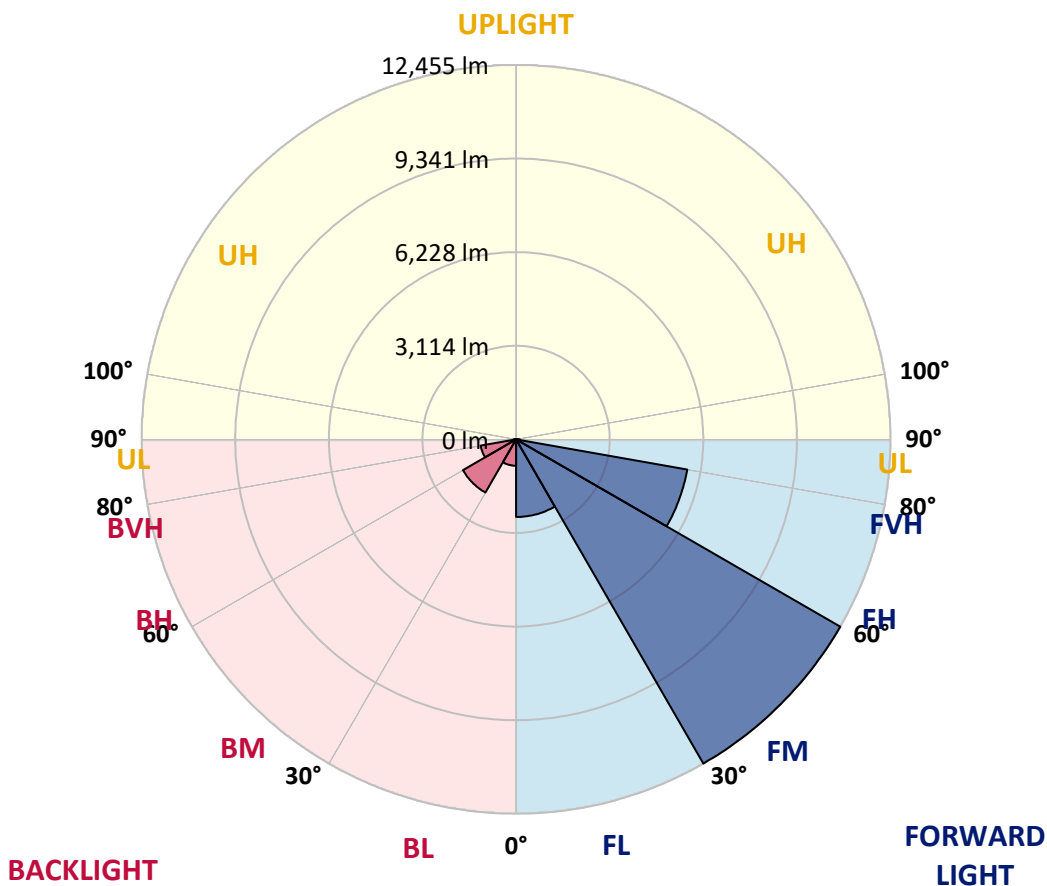
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2581.9	10.3			
FM (30°-60°)	12455.1	49.5			
FH (60°-80°)	5783.4	23.0			G3/7500
FVH (80°-90°)	128.7	0.5			G2/225
BL (0°-30°)	879.6	3.5	B2/1000		
BM (30°-60°)	2043.3	8.1	B2/2500		
BH (60°-80°)	1194.5	4.7	B3/2500		G3/2500
BVH (80°-90°)	87.1	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2381.9	2381.9	2381.9	2381.9	2381.9	2381.9	2381.9	2381.9	2381.9	2381.9	2381.9
2.5°	3338.6	3351.0	3310.3	3296.2	3200.7	3071.6	2963.7	2801.0	2650.7	2627.7	2493.3
5°	4240.5	4187.4	4141.4	4111.4	3978.7	3832.0	3603.9	3297.9	2977.9	2939.0	2649.0
7.5°	4776.3	4767.4	4710.8	4693.2	4590.6	4443.8	4208.6	3828.4	3363.4	3299.7	2859.4
10°	5206.0	5200.7	5172.4	5188.3	5094.6	4951.3	4723.2	4330.6	3786.0	3722.3	3094.6
12.5°	5580.9	5589.7	5584.4	5642.7	5595.0	5483.6	5246.6	4815.2	4208.6	4139.7	3381.1
15°	5854.9	5862.0	5888.5	6015.9	6042.4	6019.4	5778.9	5290.8	4626.0	4526.9	3676.4
17.5°	5932.8	5946.9	6010.6	6215.7	6358.9	6454.4	6275.8	5775.4	5036.2	4928.3	3977.0
20°	6037.1	6053.0	6116.7	6330.6	6541.1	6758.6	6726.7	6267.0	5450.0	5361.6	4281.1
22.5°	6519.8	6507.5	6479.2	6581.7	6732.0	7002.6	7082.2	6739.1	5877.9	5793.1	4617.1
25°	7450.0	7427.0	7246.6	7152.9	7103.4	7267.8	7409.3	7168.8	6295.3	6167.9	4930.1
27.5°	8475.6	8463.2	8233.4	8010.5	7706.4	7635.7	7718.8	7543.7	6700.2	6571.1	5202.4
30°	9446.4	9409.3	9168.8	8889.4	8482.7	8178.5	8056.5	7911.5	7144.1	7009.7	5520.7
32.5°	10314.7	10266.9	9984.0	9674.5	9248.4	8889.4	8525.1	8302.3	7646.3	7490.7	5846.1
35°	11027.3	10979.6	10689.6	10360.7	9892.1	9626.8	9128.1	8726.7	8157.3	7999.9	6229.8
37.5°	11579.0	11534.8	11232.4	10908.8	10500.4	10289.9	9856.7	9204.2	8746.2	8581.7	6636.6
40°	11888.5	11856.7	11614.4	11358.0	11014.9	10832.8	10638.3	9807.2	9405.8	9241.3	7115.8
42.5°	11982.2	11961.0	11791.2	11658.6	11427.0	11289.0	11400.4	10516.3	10109.6	9966.3	7655.1
45°	11747.0	11747.0	11697.5	11764.7	11775.3	11773.6	12164.4	11317.3	10974.3	10816.9	8415.5
47.5°	11145.8	11184.7	11257.2	11587.9	11936.2	12228.0	13057.4	12385.4	12086.6	11957.5	9492.4
50°	10045.9	10152.0	10399.6	11045.0	11785.9	12528.6	13902.6	13964.5	14249.2	14021.1	11076.8
52.5°	8434.9	8419.0	9050.3	9969.9	11099.8	12541.0	14367.7	15358.0	16123.7	15966.3	12254.5
55°	6703.7	6677.2	7266.1	8534.0	10047.7	12067.1	14647.1	15996.3	17163.4	17022.0	13313.8
57.5°	5133.5	5099.9	5623.3	6767.4	8562.3	11060.9	14594.0	16756.7	18594.0	18521.5	14753.2
60°	3533.1	3492.5	3982.3	4983.2	6804.5	9522.5	14007.0	17147.5	20268.6	20293.4	16293.4
62.5°	2122.0	2099.0	2454.4	3230.7	4894.7	7616.2	12633.0	16910.6	21601.9	21713.4	17283.7
65°	1280.3	1264.4	1473.0	1927.5	3105.2	5557.9	10514.5	15699.3	21794.7	22051.1	17306.7
67.5°	931.9	933.7	993.8	1174.2	1810.8	3589.7	7890.3	13527.7	20790.3	21055.5	16215.6
70°	809.9	813.4	845.3	885.9	1094.6	2054.8	5129.9	10679.0	17821.3	18026.4	13600.2
72.5°	719.7	719.7	740.9	762.2	855.9	1252.0	2748.0	7464.1	14065.3	14120.1	10380.1
75°	633.1	627.8	638.4	649.0	742.7	875.3	1336.9	5200.7	10389.0	10261.6	6709.1
77.5°	504.0	498.7	500.4	511.0	595.9	626.0	677.3	3248.4	5854.9	5526.0	2963.7
80°	359.0	355.4	374.9	401.4	440.3	383.7	424.4	1572.0	2321.8	2160.9	1149.4
82.5°	214.0	221.0	251.1	272.3	304.2	240.5	274.1	525.2	822.3	801.1	466.8
85°	30.1	31.8	90.2	104.3	130.9	93.7	145.0	237.0	328.9	351.9	164.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	12.4	42.4	93.7	95.5	40.7
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°	2381.9	2381.9	2381.9	2381.9	2381.9	2381.9	2381.9	2381.9	2381.9	2381.9	2381.9
2.5°	2424.4	2341.3	2222.8	2123.8	2040.7	1973.5	1916.9	1874.4	1862.1	1844.4	1844.4
5°	2512.8	2362.5	2150.3	2000.0	1913.3	1862.1	1826.7	1809.0	1800.2	1789.6	1784.2
7.5°	2634.8	2424.4	2137.9	1985.8	1918.6	1886.8	1863.8	1853.2	1846.1	1835.5	1835.5
10°	2802.8	2516.3	2176.8	2035.4	1982.3	1950.5	1923.9	1906.3	1890.3	1874.4	1870.9
12.5°	2984.9	2636.6	2247.6	2102.5	2046.0	2007.1	1969.9	1943.4	1923.9	1904.5	1899.2
15°	3186.5	2760.4	2323.6	2168.0	2097.2	2044.2	2000.0	1959.3	1932.8	1904.5	1901.0
17.5°	3384.6	2885.9	2387.2	2212.2	2122.0	2056.6	1992.9	1939.9	1906.3	1874.4	1865.6
20°	3621.5	3011.5	2431.5	2224.6	2116.7	2030.0	1954.0	1886.8	1849.7	1812.5	1807.2
22.5°	3839.0	3128.2	2452.7	2206.9	2076.0	1973.5	1885.0	1812.5	1771.9	1734.7	1727.7
25°	4049.5	3230.7	2443.8	2164.4	2014.1	1895.7	1803.7	1731.2	1692.3	1653.4	1642.8
27.5°	4252.8	3299.7	2408.5	2099.0	1936.3	1809.0	1720.6	1655.2	1621.6	1588.0	1573.8
30°	4452.7	3363.4	2353.7	2014.1	1837.3	1718.8	1646.3	1600.3	1566.7	1531.4	1520.8
32.5°	4654.3	3409.3	2270.5	1915.1	1736.5	1639.2	1595.0	1561.4	1526.1	1490.7	1480.1
35°	4857.6	3428.8	2169.7	1801.9	1651.6	1588.0	1572.0	1533.1	1485.4	1443.0	1428.8
37.5°	5099.9	3446.5	2044.2	1690.5	1577.4	1563.2	1559.7	1501.3	1444.7	1386.4	1370.5
40°	5391.6	3469.5	1915.1	1589.7	1517.2	1554.4	1540.2	1460.6	1347.5	1290.9	1273.2
42.5°	5748.8	3511.9	1780.7	1497.8	1473.0	1520.8	1504.9	1361.6	1285.6	1253.7	1244.9
45°	6274.0	3667.5	1646.3	1425.3	1439.4	1473.0	1448.3	1303.3	1273.2	1252.0	1241.4
47.5°	7209.5	3906.2	1529.6	1370.5	1412.9	1430.6	1335.1	1287.3	1264.4	1236.1	1223.7
50°	8182.1	4010.6	1435.9	1336.9	1382.8	1391.7	1273.2	1266.1	1250.2	1220.1	1207.8
52.5°	8839.9	3996.4	1379.3	1324.5	1358.1	1324.5	1244.9	1243.1	1232.5	1197.2	1183.0
55°	9582.6	4021.2	1354.5	1328.0	1347.5	1211.3	1209.5	1214.8	1209.5	1170.6	1163.6
57.5°	10585.2	4097.2	1342.2	1340.4	1340.4	1156.5	1175.9	1183.0	1172.4	1154.7	1149.4
60°	11549.0	4102.5	1319.2	1354.5	1335.1	1122.9	1137.0	1144.1	1131.7	1128.2	1126.4
62.5°	11911.5	3847.9	1267.9	1343.9	1313.9	1085.8	1096.4	1099.9	1087.5	1096.4	1094.6
65°	11372.1	3306.8	1183.0	1292.7	1248.4	1052.2	1045.1	1053.9	1032.7	1055.7	1057.5
67.5°	10097.2	2627.7	1053.9	1195.4	1156.5	1015.0	1000.9	1000.9	965.5	1000.9	999.1
70°	8141.4	1856.7	864.7	1039.8	1055.7	970.8	963.7	923.1	866.5	919.5	914.2
72.5°	6171.5	1333.3	680.8	822.3	908.9	908.9	910.7	841.7	776.3	801.1	779.8
75°	3909.8	939.0	544.6	629.5	712.6	797.5	838.2	710.9	652.5	641.9	631.3
77.5°	1761.3	617.1	424.4	482.8	505.7	629.5	765.7	611.8	532.3	509.3	502.2
80°	737.4	383.7	302.4	341.3	311.2	528.7	675.5	475.7	390.8	359.0	336.0
82.5°	323.6	228.1	192.7	183.9	194.5	392.6	504.0	316.5	244.0	330.7	334.2
85°	136.2	120.2	99.0	90.2	79.6	150.3	237.0	123.8	152.1	86.6	70.7
87.5°	31.8	35.4	26.5	17.7	10.6	1.8	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)