

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: P637814

Luminaire Tested: GWS-SA4D-750-U-SL3-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P637814  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-33)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4D-750-U-SL3-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (64) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

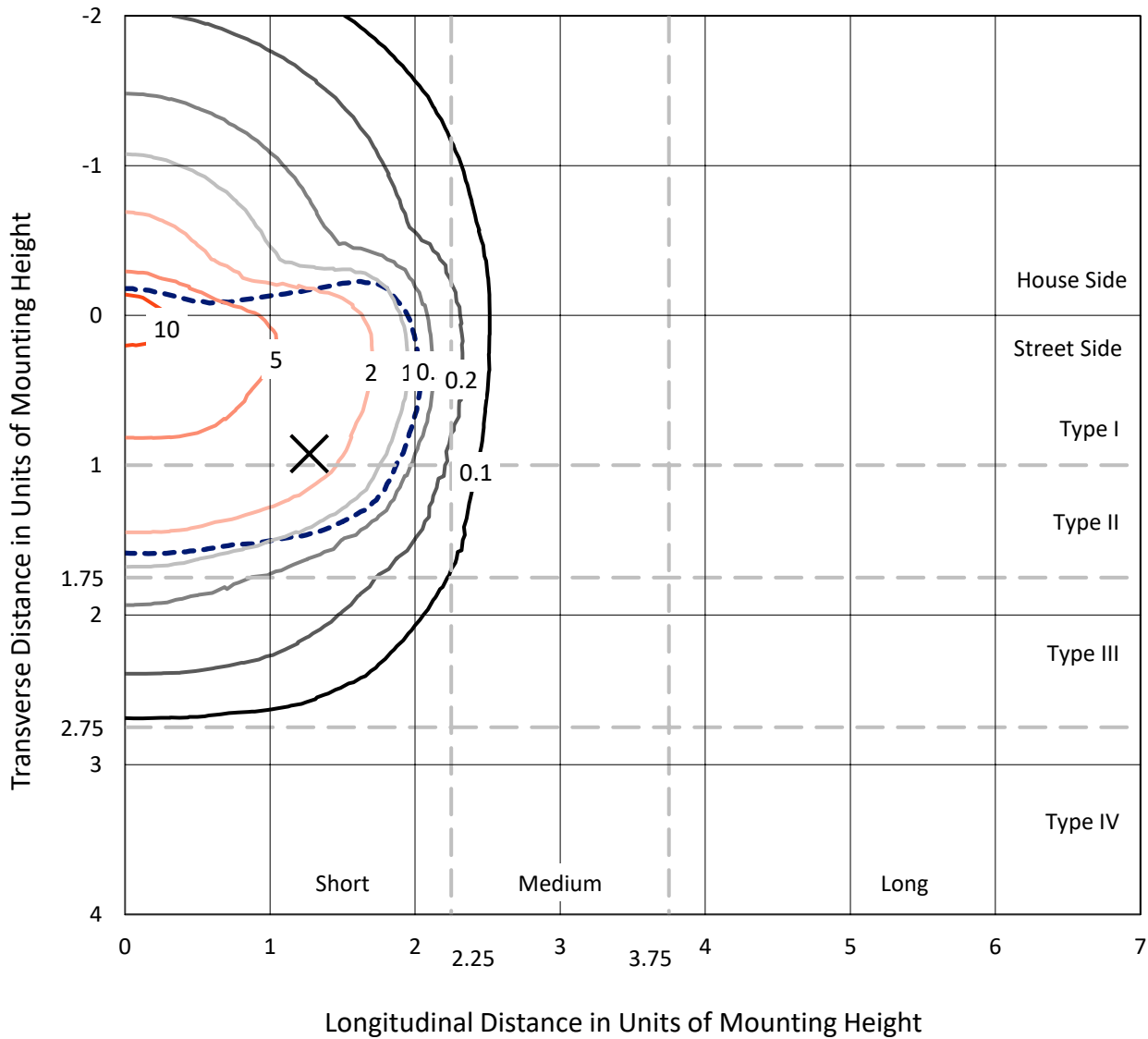
Lumens per Lamp: N/A  
Luminaire Lumens: 20978.2 lumens  
Efficiency: N/A  
Efficacy: 129.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 162.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

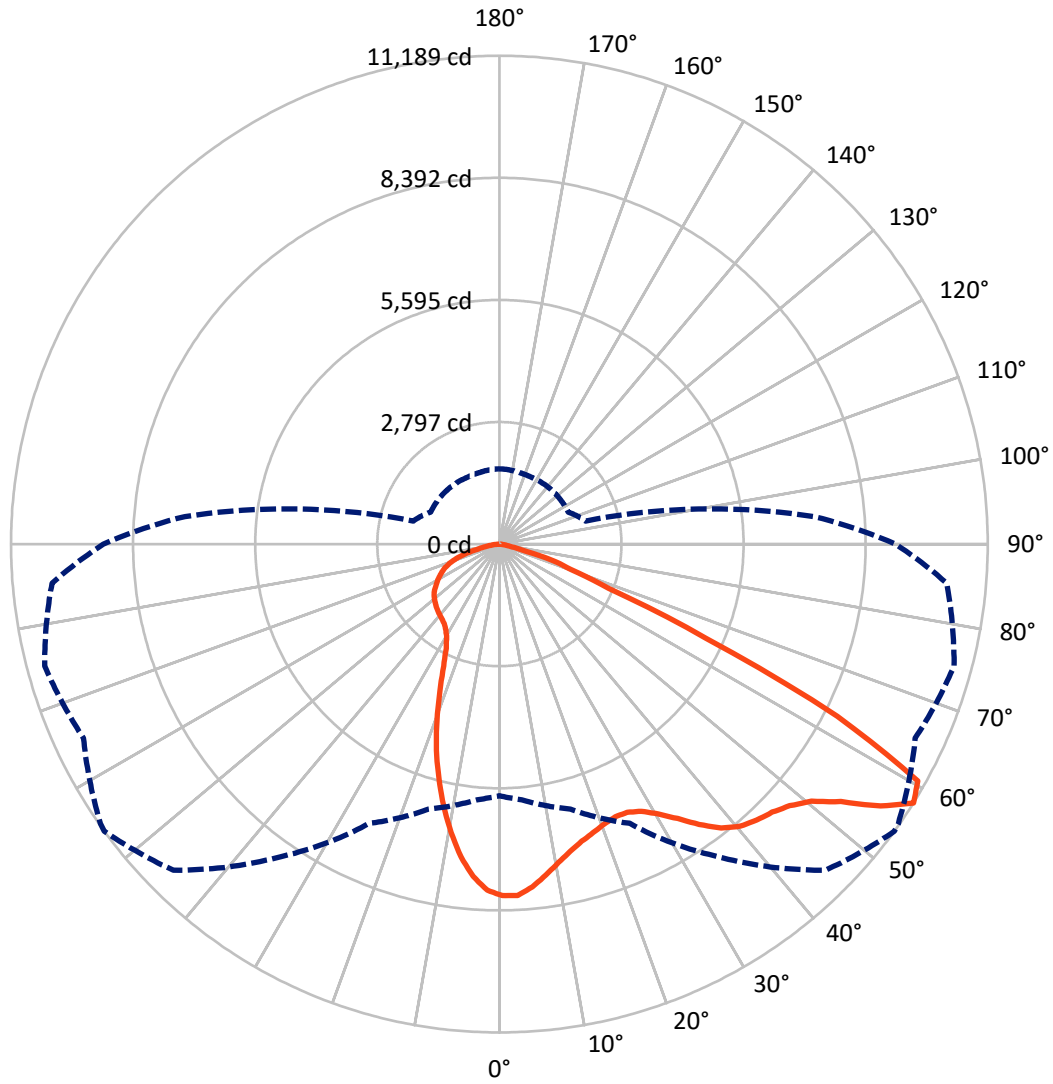
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6098.6	0.0	6098.6
	% Fixture	29.1	0.0	29.1
<b>Street Side</b>	Lumens	14879.6	0.0	14879.6
	% Fixture	70.9	0.0	70.9
<b>Total</b>	Lumens	20978.2	0.0	20978.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	707.9	3.4
10°-20°	1689.2	8.1
20°-30°	2337.6	11.1
30°-40°	3248.2	15.5
40°-50°	4289.8	20.4
50°-60°	5097.8	24.3
60°-70°	2824.3	13.5
70°-80°	703.3	3.4
80°-90°	80.0	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°	20978.2	100.0
0°-180°	20978.2	100.0

**Coefficient of Utilization**



REPORT NUMBER: P637814

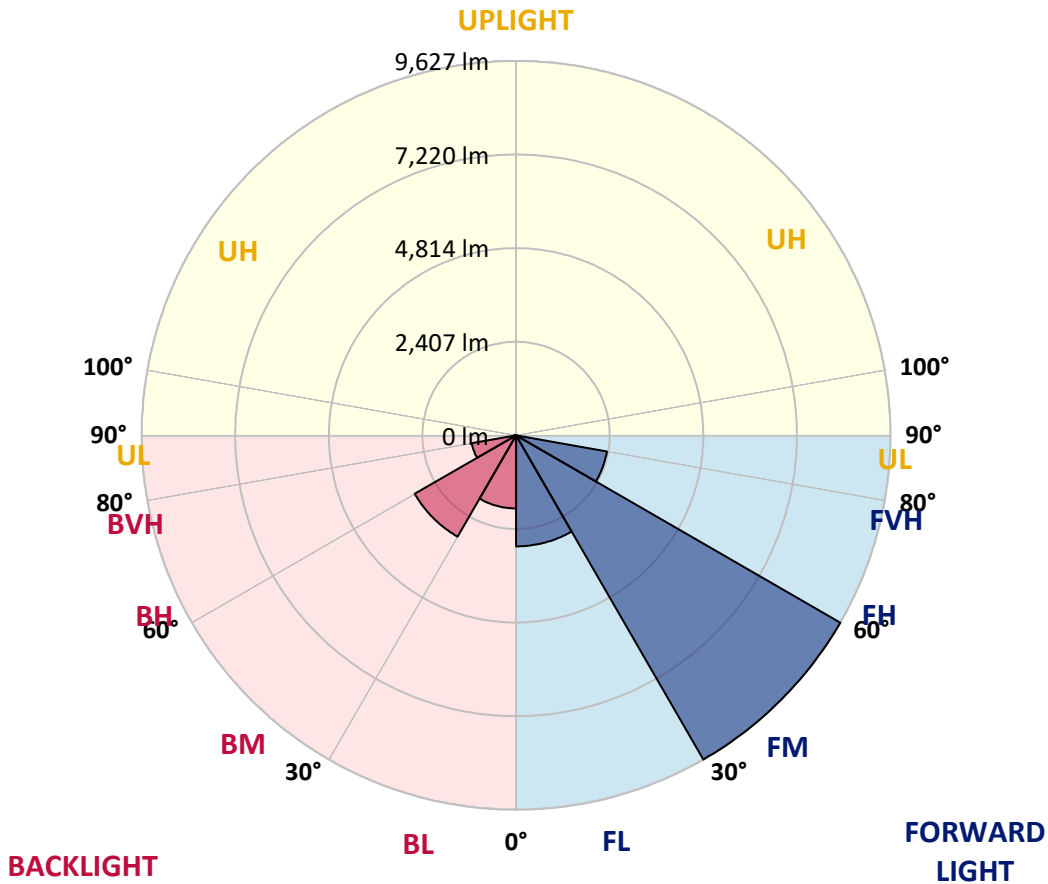
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2855.5	13.6			
FM (30°-60°)	9627.2	45.9			
FH (60°-80°)	2371.9	11.3			G2/5000
FVH (80°-90°)	25.0	0.1			G1/100
BL (0°-30°)	1879.3	9.0	B3/2500		
BM (30°-60°)	3008.6	14.3	B3/5000		
BH (60°-80°)	1155.7	5.5	B3/2500		G3/2500
BVH (80°-90°)	55.0	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°	54°	55°	65°	75°	85°
0°	8054.0	8054.0	8054.0	8054.0	8054.0	8054.0	8054.0	8054.0	8054.0	8054.0	8054.0
2.5°	7903.2	7919.3	7930.1	7967.8	8000.1	8028.9	8059.4	8059.4	8057.6	8052.2	8041.4
5°	7590.7	7608.7	7633.8	7685.9	7755.9	7806.2	7888.8	7896.0	7931.9	7946.3	7939.1
7.5°	7228.0	7233.3	7265.7	7333.9	7445.2	7535.0	7653.6	7667.9	7754.1	7804.4	7795.4
10°	6831.1	6813.1	6870.6	6971.2	7116.6	7267.5	7420.1	7432.7	7570.9	7666.1	7658.9
12.5°	6468.3	6470.1	6527.6	6649.7	6831.1	7017.9	7222.6	7251.3	7421.9	7544.0	7531.4
15°	6164.9	6172.0	6242.1	6380.4	6586.9	6809.5	7064.5	7091.5	7307.0	7468.6	7432.7
17.5°	5922.4	5929.6	5990.7	6148.7	6369.6	6638.9	6949.6	6976.5	7244.1	7436.3	7362.6
20°	5755.4	5751.8	5811.1	5961.9	6190.0	6482.7	6849.0	6888.6	7224.4	7448.8	7315.9
22.5°	5687.2	5685.4	5728.5	5852.4	6066.1	6362.4	6788.0	6841.9	7245.9	7504.5	7287.2
25°	5721.3	5714.1	5751.8	5843.4	6014.0	6315.7	6806.0	6863.4	7337.5	7619.4	7292.6
27.5°	5827.3	5818.3	5850.6	5933.2	6062.5	6364.2	6931.7	6998.1	7531.4	7829.5	7364.4
30°	5988.9	5983.5	6015.8	6094.8	6208.0	6525.8	7172.3	7247.7	7831.3	8156.4	7520.7
32.5°	6177.4	6168.5	6225.9	6317.5	6448.6	6820.3	7495.5	7594.3	8186.9	8576.6	7782.8
35°	6389.3	6382.1	6461.2	6594.1	6782.6	7229.8	7887.0	7994.7	8549.6	9052.5	8131.2
37.5°	6595.8	6595.8	6748.5	6946.0	7183.1	7675.1	8255.1	8323.4	8801.0	9474.5	8504.7
40°	6779.0	6789.8	7019.6	7315.9	7617.6	8077.4	8497.6	8555.0	8912.4	9765.4	8829.8
42.5°	6981.9	6990.9	7258.5	7646.4	8005.5	8402.4	8644.8	8673.5	8933.9	9910.8	9059.6
45°	7143.6	7156.1	7488.3	7903.2	8343.1	8646.6	8761.5	8786.7	8964.5	9989.8	9226.6
47.5°	7228.0	7245.9	7626.6	8109.7	8571.2	8865.7	8953.7	8964.5	9090.2	10128.1	9427.8
50°	7213.6	7249.5	7678.7	8212.0	8740.0	9086.6	9262.6	9280.5	9347.0	10331.0	9663.0
52.5°	7341.1	7357.3	7790.0	8334.1	8980.6	9494.2	9799.5	9824.6	9794.1	10483.7	9803.1
55°	7129.2	7206.4	7651.8	8316.2	9347.0	10124.5	10595.0	10582.4	10199.9	10654.3	10036.5
57.5°	5766.2	5879.3	6287.0	7059.2	8743.6	10566.3	11189.4	11158.9	10514.2	10785.4	10289.7
60°	3992.0	4009.9	4378.1	4925.8	6748.5	9334.4	11015.2	11081.7	10571.7	10620.2	9821.0
62.5°	3192.9	3187.5	3221.6	3236.0	4291.9	6561.7	8695.1	8937.5	8783.1	8274.9	6960.4
65°	2726.0	2745.7	2846.3	2794.2	2801.4	3695.7	5195.1	5229.3	5121.5	4938.4	3681.3
67.5°	2133.4	2167.5	2345.3	2548.2	2483.5	2379.4	2695.4	2679.3	2111.8	1634.1	1350.4
70°	1336.0	1357.6	1547.9	2000.5	2162.1	1953.8	1732.9	1725.7	1131.3	930.2	1020.0
72.5°	779.4	783.0	836.8	1115.2	1434.8	1336.0	1275.0	1228.3	727.3	741.7	813.5
75°	429.2	429.2	427.4	481.3	565.7	501.0	484.9	472.3	486.7	551.3	605.2
77.5°	89.8	91.6	97.0	127.5	165.2	201.1	253.2	255.0	317.9	368.1	411.2
80°	41.3	43.1	53.9	68.2	88.0	116.7	154.4	156.2	192.1	231.7	260.4
82.5°	21.5	23.3	28.7	35.9	46.7	61.1	86.2	86.2	114.9	136.5	154.4
85°	7.2	7.2	10.8	14.4	19.8	25.1	34.1	34.1	50.3	66.4	77.2
87.5°	0.0	0.0	0.0	0.0	1.8	3.6	7.2	7.2	9.0	10.8	18.0
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°	8054.0	8054.0	8054.0	8054.0	8054.0	8054.0	8054.0	8054.0	8054.0	8054.0	8054.0
2.5°	8018.1	7962.4	7964.2	7975.0	7940.9	7888.8	7854.7	7811.6	7784.6	7779.3	7799.0
5°	7903.2	7838.5	7793.6	7746.9	7650.0	7535.0	7445.2	7371.6	7323.1	7305.2	7283.6
7.5°	7745.1	7660.7	7547.6	7416.5	7240.5	7035.8	6892.1	6757.5	6664.1	6637.1	6624.6
10°	7587.1	7465.0	7263.9	7019.6	6726.9	6450.4	6190.0	5990.7	5832.6	5742.9	5771.6
12.5°	7423.7	7272.8	6958.6	6583.3	6175.6	5759.0	5417.8	5087.4	4832.4	4704.9	4667.2
15°	7280.0	7075.3	6637.1	6128.9	5586.6	5062.3	4568.4	4072.8	3749.6	3573.6	3525.1
17.5°	7157.9	6892.1	6297.7	5665.6	5017.4	4270.3	3663.4	3203.6	2982.8	2885.8	2878.6
20°	7037.6	6712.6	5961.9	5166.4	4360.1	3523.3	2981.0	2765.5	2686.5	2652.3	2650.5
22.5°	6929.9	6524.0	5608.2	4667.2	3706.5	2961.2	2663.1	2569.7	2548.2	2548.2	2544.6
25°	6838.3	6335.5	5245.4	4137.4	3115.7	2636.2	2497.9	2458.4	2467.4	2483.5	2485.3
27.5°	6800.6	6188.2	4895.3	3593.3	2708.0	2447.6	2384.8	2379.4	2404.5	2429.7	2433.3
30°	6840.1	6087.6	4536.1	3072.6	2463.8	2332.7	2304.0	2314.7	2345.3	2370.4	2370.4
32.5°	6962.2	6037.4	4169.8	2691.9	2321.9	2251.9	2242.9	2253.7	2277.0	2291.4	2293.2
35°	7168.7	6057.1	3790.9	2435.1	2230.3	2192.6	2190.8	2198.0	2207.0	2216.0	2217.8
37.5°	7429.1	6145.1	3385.0	2286.0	2171.1	2149.5	2145.9	2144.1	2145.9	2145.9	2147.7
40°	7684.1	6278.0	3022.3	2198.0	2129.8	2111.8	2102.8	2090.3	2088.5	2084.9	2083.1
42.5°	7872.6	6380.4	2733.2	2135.2	2092.1	2070.5	2059.7	2040.0	2038.2	2036.4	2034.6
45°	8014.5	6466.6	2492.5	2074.1	2052.6	2032.8	2009.5	1991.5	1995.1	1998.7	1998.7
47.5°	8174.3	6542.0	2316.5	2016.6	2004.1	1984.3	1955.6	1943.0	1955.6	1968.2	1968.2
50°	8368.3	6647.9	2172.9	1959.2	1953.8	1930.4	1905.3	1899.9	1914.3	1932.2	1932.2
52.5°	8510.1	6739.5	2070.5	1901.7	1901.7	1871.2	1849.6	1847.8	1864.0	1882.0	1883.8
55°	8775.9	6953.2	2034.6	1835.3	1828.1	1804.7	1788.6	1776.0	1795.8	1811.9	1811.9
57.5°	9075.8	7236.9	2043.6	1740.1	1731.1	1723.9	1711.4	1697.0	1702.4	1720.3	1722.1
60°	8440.1	6687.4	1944.8	1644.9	1639.5	1635.9	1619.8	1594.6	1601.8	1616.2	1618.0
62.5°	5895.5	4444.5	1573.1	1526.4	1544.4	1542.6	1521.0	1492.3	1494.1	1513.8	1513.8
65°	3060.0	2404.5	1380.9	1418.7	1445.6	1434.8	1398.9	1373.8	1370.2	1395.3	1389.9
67.5°	1319.9	1312.7	1257.0	1305.5	1334.3	1310.9	1273.2	1231.9	1235.5	1244.5	1237.3
70°	1063.1	1095.4	1118.8	1170.8	1194.2	1151.1	1109.8	1086.4	1066.7	1064.9	1052.3
72.5°	849.4	894.3	946.4	1000.2	1007.4	964.3	912.2	890.7	860.2	858.4	845.8
75°	639.3	677.0	718.3	761.4	761.4	720.1	686.0	675.2	639.3	628.5	617.7
77.5°	436.4	459.7	492.0	502.8	513.6	497.4	463.3	445.3	404.0	393.3	378.9
80°	274.8	290.9	310.7	317.9	328.6	308.9	281.9	262.2	233.4	224.5	217.3
82.5°	165.2	176.0	188.6	192.1	201.1	186.8	161.6	147.3	131.1	123.9	118.5
85°	84.4	89.8	97.0	98.8	97.0	82.6	73.6	66.4	55.7	53.9	50.3
87.5°	21.5	25.1	26.9	25.1	23.3	18.0	12.6	9.0	3.6	3.6	1.8
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)