

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: P637837

Luminaire Tested: GWS-SA4D-750-U-T3-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P637837  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-25)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4D-750-U-T3-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (64) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

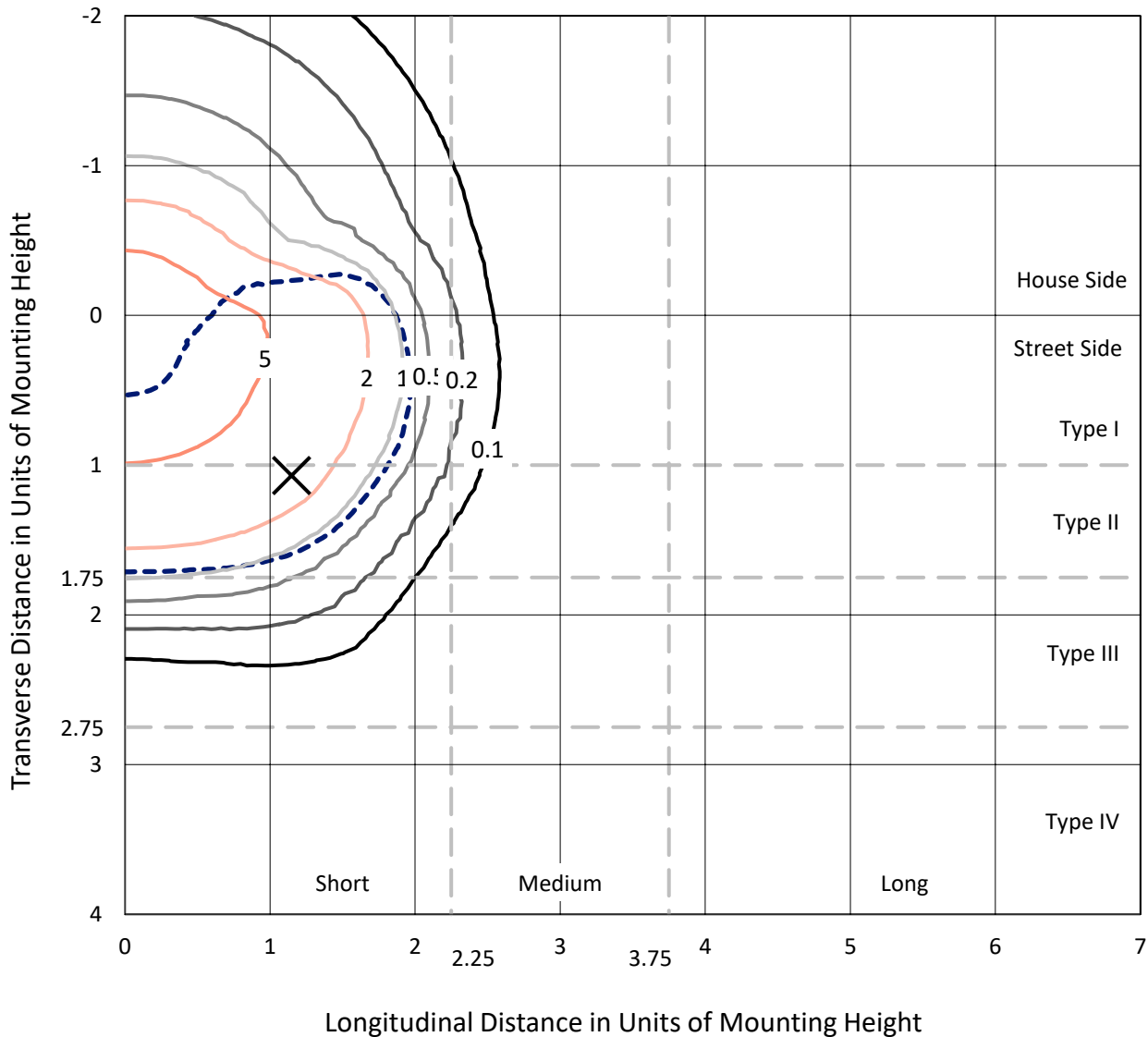
Lumens per Lamp: N/A  
Luminaire Lumens: 21380.5 lumens  
Efficiency: N/A  
Efficacy: 131.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 162.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

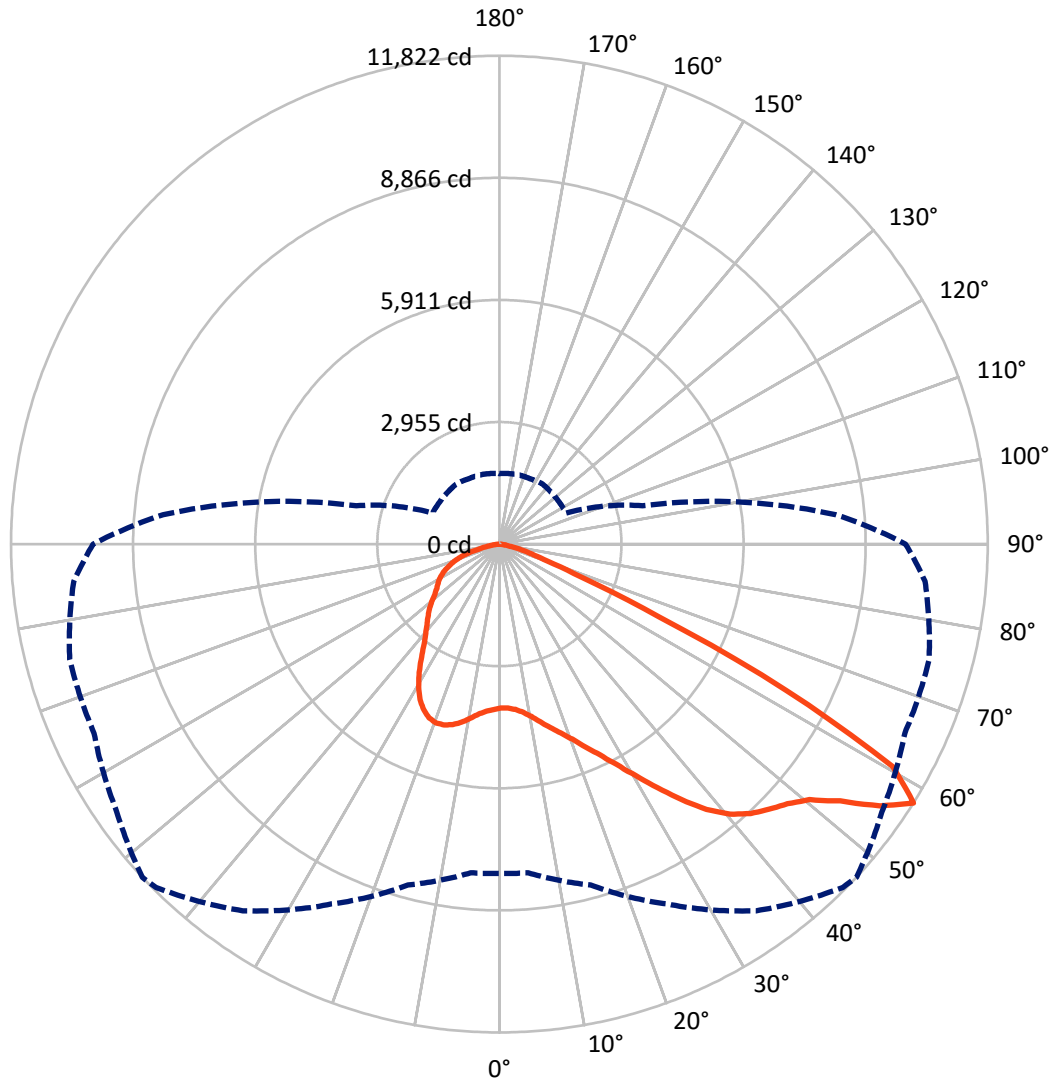
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6766.9	0.0	6766.9
	% Fixture	31.6	0.0	31.6
<b>Street Side</b>	Lumens	14613.6	0.0	14613.6
	% Fixture	68.4	0.0	68.4
<b>Total</b>	Lumens	21380.5	0.0	21380.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	391.1	1.8
10°-20°	1286.3	6.0
20°-30°	2316.1	10.8
30°-40°	3498.2	16.4
40°-50°	4710.7	22.0
50°-60°	5660.6	26.5
60°-70°	2756.8	12.9
70°-80°	679.2	3.2
80°-90°	81.6	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°	21380.5	100.0
0°-180°	21380.5	100.0

**Coefficient of Utilization**



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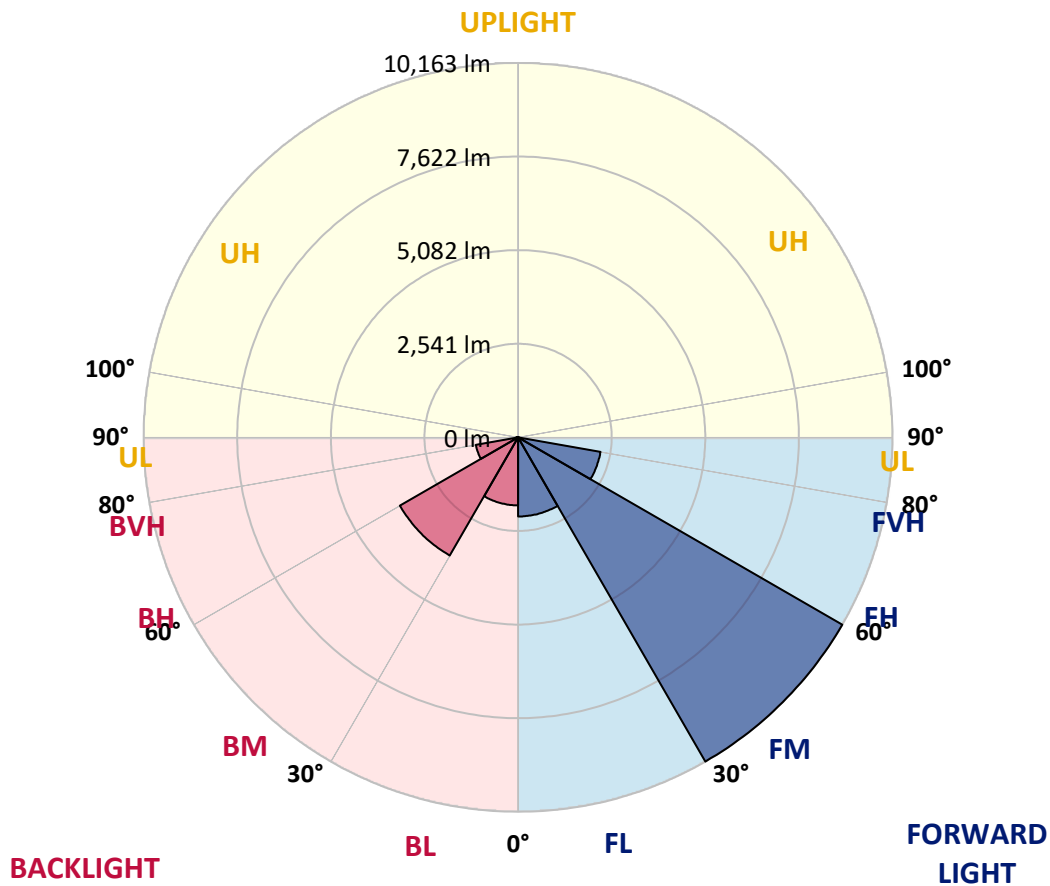
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2147.6	10.0			
FM (30°-60°)	10163.3	47.5			
FH (60°-80°)	2272.1	10.6			G2/5000
FVH (80°-90°)	30.7	0.1			G1/100
BL (0°-30°)	1845.9	8.6	B3/2500		
BM (30°-60°)	3706.2	17.3	B3/5000		
BH (60°-80°)	1163.9	5.4	B3/2500		G3/2500
BVH (80°-90°)	50.9	0.2			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°	47°	55°	65°	75°	85°
0°	3965.0	3965.0	3965.0	3965.0	3965.0	3965.0	3965.0	3965.0	3965.0	3965.0	3965.0
2.5°	3957.9	3956.1	3956.1	3966.8	3966.8	3970.4	3975.8	3981.2	3983.0	3974.0	3954.3
5°	4001.0	4001.0	4001.0	4009.9	4009.9	4013.5	4020.7	4022.5	4020.7	4006.3	3986.6
7.5°	4069.2	4069.2	4071.0	4081.8	4090.7	4096.1	4108.7	4106.9	4101.5	4078.2	4053.0
10°	4180.5	4185.9	4191.3	4203.9	4221.8	4234.4	4243.4	4243.4	4236.2	4200.3	4168.0
12.5°	4338.6	4345.7	4351.1	4361.9	4376.3	4397.8	4417.6	4417.6	4408.6	4363.7	4315.2
15°	4523.5	4530.7	4528.9	4532.5	4559.4	4590.0	4606.1	4616.9	4620.5	4557.6	4482.2
17.5°	4735.4	4742.6	4735.4	4724.7	4728.2	4776.7	4805.5	4845.0	4868.3	4783.9	4663.6
20°	4927.6	4920.4	4920.4	4927.6	4938.3	4997.6	5040.7	5105.4	5134.1	5031.7	4845.0
22.5°	5130.5	5146.7	5139.5	5139.5	5182.6	5281.3	5333.4	5417.8	5448.3	5315.5	5064.1
25°	5392.7	5407.0	5403.5	5407.0	5457.3	5597.4	5649.5	5805.7	5836.2	5645.9	5306.5
27.5°	5680.0	5703.3	5714.1	5710.5	5791.3	5974.5	6039.2	6256.4	6312.1	6015.8	5565.1
30°	6053.5	6078.7	6087.6	6084.0	6179.2	6428.8	6502.5	6750.3	6829.3	6454.0	5893.7
32.5°	6486.3	6511.4	6538.4	6549.1	6671.3	6926.3	7032.2	7289.0	7402.1	6960.4	6290.6
35°	6915.5	6937.0	6989.1	7073.5	7240.5	7500.9	7594.3	7847.5	7957.0	7486.5	6770.0
37.5°	7389.6	7403.9	7448.8	7565.5	7806.2	8054.0	8147.4	8389.8	8402.4	7994.7	7312.3
40°	7908.5	7908.5	7899.6	8014.5	8265.9	8515.5	8596.3	8736.4	8662.8	8386.2	7840.3
42.5°	8348.5	8341.3	8348.5	8456.2	8643.0	8845.9	8916.0	8889.0	8795.6	8686.1	8318.0
45°	8745.4	8750.8	8815.4	8898.0	8995.0	9115.3	9156.6	9004.0	8919.6	8926.7	8700.5
47.5°	9014.7	9020.1	9171.0	9309.2	9368.5	9406.2	9388.2	9176.3	9133.3	9214.1	8995.0
50°	9050.6	9079.4	9339.8	9623.5	9770.7	9776.1	9725.9	9467.3	9454.7	9546.3	9153.0
52.5°	9057.8	9086.6	9411.6	9923.4	10305.9	10386.7	10329.2	10059.9	9928.8	9837.2	9346.9
55°	9030.9	9063.2	9422.4	10124.5	10857.2	11180.4	11185.8	10805.1	10386.7	10325.6	9900.0
57.5°	7973.2	7985.8	8542.4	9612.7	10835.6	11751.5	11821.5	11304.3	10826.7	10769.2	10343.6
60°	5554.3	5604.6	6209.7	7623.0	9102.7	10717.1	10943.4	10792.5	10472.9	10054.5	8874.7
62.5°	2781.6	2824.7	3431.7	4767.8	6278.0	7553.0	7795.4	7955.2	8030.7	7581.7	6042.7
65°	1197.8	1230.1	1607.2	2490.7	3553.8	4169.8	4254.2	4446.3	4916.8	4387.0	3255.7
67.5°	800.9	822.5	1014.6	1519.2	2093.9	2133.4	2120.8	2162.1	2264.5	1869.4	1470.7
70°	614.2	632.1	761.4	1113.4	1504.8	1287.6	1219.3	1106.2	1201.4	1224.7	1192.4
72.5°	445.3	459.7	556.7	759.6	942.8	822.5	811.7	869.1	998.4	1034.4	1014.6
75°	287.3	294.5	353.8	416.6	486.7	528.0	549.5	653.7	784.7	811.7	788.3
77.5°	192.1	197.5	231.7	267.6	276.5	278.3	285.5	332.2	422.0	472.3	466.9
80°	100.6	100.6	113.1	113.1	129.3	154.4	161.6	192.1	233.4	258.6	260.4
82.5°	39.5	41.3	48.5	53.9	64.6	79.0	84.4	100.6	122.1	140.1	156.2
85°	16.2	18.0	19.8	23.3	28.7	35.9	37.7	43.1	57.5	71.8	80.8
87.5°	0.0	0.0	1.8	1.8	3.6	5.4	5.4	7.2	9.0	16.2	21.5
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°	3965.0	3965.0	3965.0	3965.0	3965.0	3965.0	3965.0	3965.0	3965.0	3965.0	3965.0
2.5°	3977.6	3954.3	3977.6	3984.8	4004.6	4011.7	3999.2	3997.4	3997.4	3979.4	3974.0
5°	4004.6	3983.0	4006.3	4017.1	4045.9	4063.8	4067.4	4081.8	4090.7	4083.6	4081.8
7.5°	4071.0	4044.1	4069.2	4085.4	4123.1	4151.8	4164.4	4196.7	4220.0	4216.5	4214.7
10°	4187.7	4151.8	4180.5	4207.5	4248.8	4282.9	4284.7	4302.6	4326.0	4318.8	4315.2
12.5°	4322.4	4288.3	4320.6	4347.5	4396.0	4410.4	4387.0	4379.9	4383.5	4374.5	4367.3
15°	4487.6	4439.1	4467.9	4498.4	4525.3	4509.2	4458.9	4439.1	4437.3	4424.8	4417.6
17.5°	4652.8	4591.8	4613.3	4629.5	4616.9	4566.6	4503.8	4469.7	4453.5	4428.4	4421.2
20°	4816.2	4739.0	4735.4	4722.9	4665.4	4573.8	4489.4	4421.2	4379.9	4345.7	4333.2
22.5°	5003.0	4895.2	4841.4	4783.9	4658.2	4509.2	4381.7	4284.7	4218.2	4175.1	4160.8
25°	5204.1	5051.5	4940.1	4825.2	4586.4	4370.9	4193.1	4060.2	3981.2	3934.5	3918.4
27.5°	5403.5	5193.3	5026.3	4830.6	4442.7	4171.6	3932.7	3753.1	3674.1	3636.4	3623.8
30°	5672.8	5381.9	5128.7	4760.6	4254.2	3895.0	3596.9	3415.5	3363.5	3336.5	3325.8
32.5°	5983.5	5620.7	5265.2	4613.3	4013.5	3571.8	3257.5	3131.8	3095.9	3043.8	3042.0
35°	6392.9	5961.9	5394.5	4396.0	3710.0	3225.2	2997.1	2907.3	2842.7	2760.1	2752.9
37.5°	6870.6	6387.5	5464.5	4119.5	3356.3	2939.7	2803.2	2702.6	2598.5	2488.9	2474.6
40°	7364.4	6885.0	5469.9	3792.7	3009.7	2751.1	2636.2	2505.1	2375.8	2253.7	2237.5
42.5°	7883.4	7348.3	5374.7	3415.5	2726.0	2587.7	2471.0	2305.8	2160.3	2077.7	2068.7
45°	8346.7	7721.8	5159.2	3018.7	2515.9	2451.2	2302.2	2124.4	2047.2	1987.9	1975.3
47.5°	8711.2	7969.6	4868.3	2663.1	2345.3	2311.1	2117.2	2025.6	1966.4	1912.5	1899.9
50°	8890.8	8025.3	4489.4	2374.0	2187.2	2145.9	2013.1	1943.0	1903.5	1860.4	1849.6
52.5°	9113.5	8088.1	4162.6	2131.6	2032.8	1977.1	1926.9	1871.2	1842.5	1815.5	1806.5
55°	9625.3	8325.2	3990.2	1937.6	1885.6	1860.4	1853.2	1806.5	1797.6	1779.6	1763.4
57.5°	9833.6	8172.5	3582.5	1779.6	1768.8	1772.4	1790.4	1747.3	1738.3	1716.7	1706.0
60°	7908.5	6177.4	2426.1	1643.1	1671.9	1695.2	1713.2	1670.1	1657.5	1653.9	1639.5
62.5°	5067.6	3799.8	1693.4	1515.6	1558.7	1587.5	1598.2	1556.9	1547.9	1576.7	1578.5
65°	2638.0	2070.5	1373.8	1379.1	1415.1	1458.2	1479.7	1465.3	1461.8	1492.3	1494.1
67.5°	1346.8	1266.0	1197.8	1217.5	1246.3	1301.9	1352.2	1415.1	1436.6	1440.2	1442.0
70°	1147.5	1111.6	1077.5	1090.0	1120.6	1151.1	1199.6	1230.1	1194.2	1185.2	1181.6
72.5°	976.9	950.0	933.8	948.2	964.3	958.9	944.6	958.9	964.3	966.1	967.9
75°	759.6	739.9	727.3	729.1	729.1	709.3	682.4	666.2	648.3	633.9	633.9
77.5°	465.1	468.7	481.3	479.5	477.7	470.5	443.6	429.2	386.1	373.5	373.5
80°	265.8	271.2	283.7	287.3	287.3	278.3	251.4	235.2	215.5	206.5	204.7
82.5°	161.6	168.8	176.0	179.6	181.4	170.6	147.3	134.7	123.9	114.9	114.9
85°	84.4	88.0	95.2	97.0	91.6	80.8	68.2	62.9	52.1	50.3	50.3
87.5°	23.3	25.1	28.7	23.3	21.5	16.2	9.0	7.2	3.6	1.8	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)