

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: P636873

Luminaire Tested: GWS-SA4B-760-U-RW-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P636873  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-49)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4B-760-U-RW-W  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS  
Light Source: (64) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

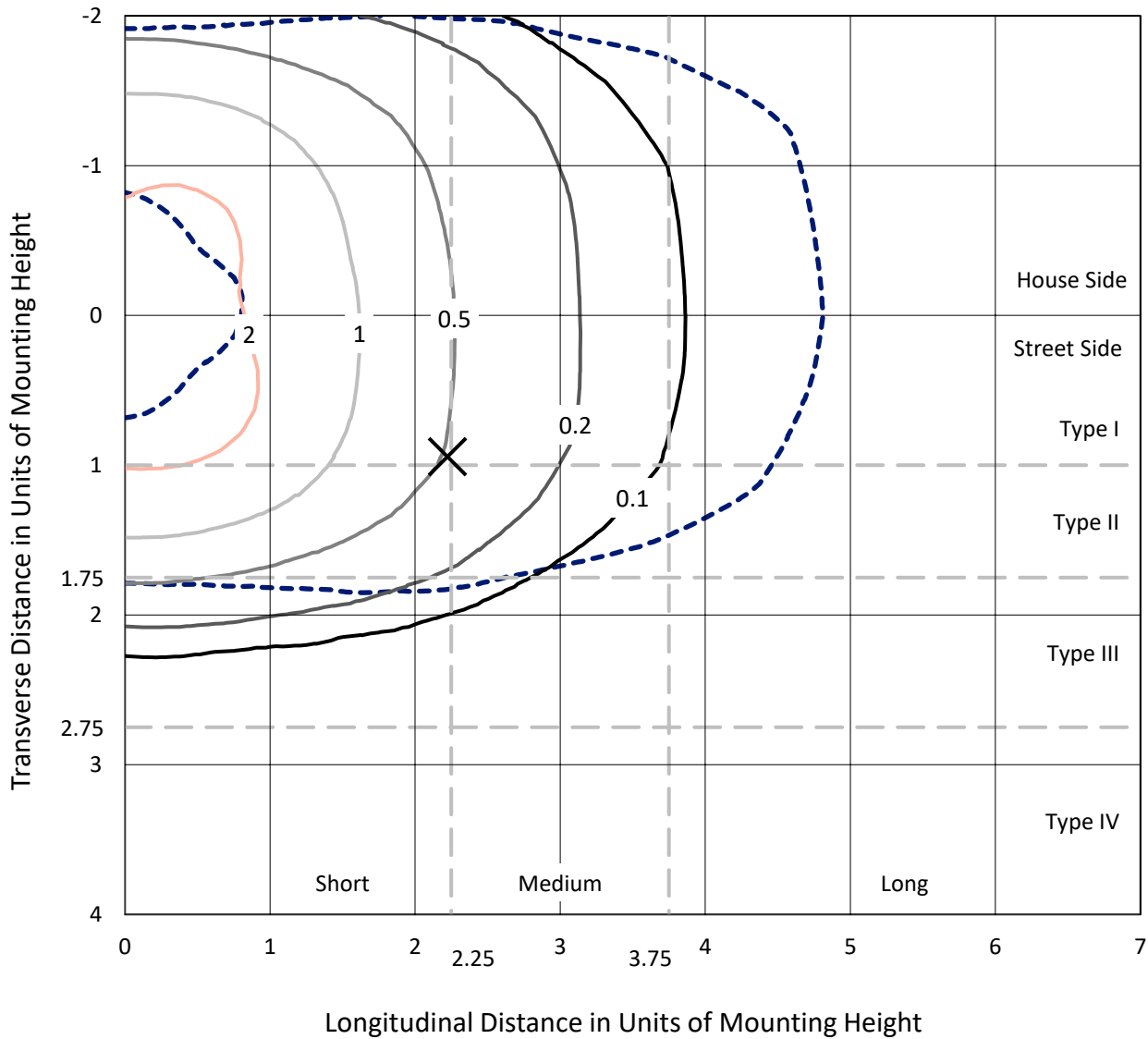
Lumens per Lamp: N/A  
Luminaire Lumens: 15032.8 lumens  
Efficiency: N/A  
Efficacy: 159.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B4 - U0 - G4  
  
Input Watts (W): 94.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

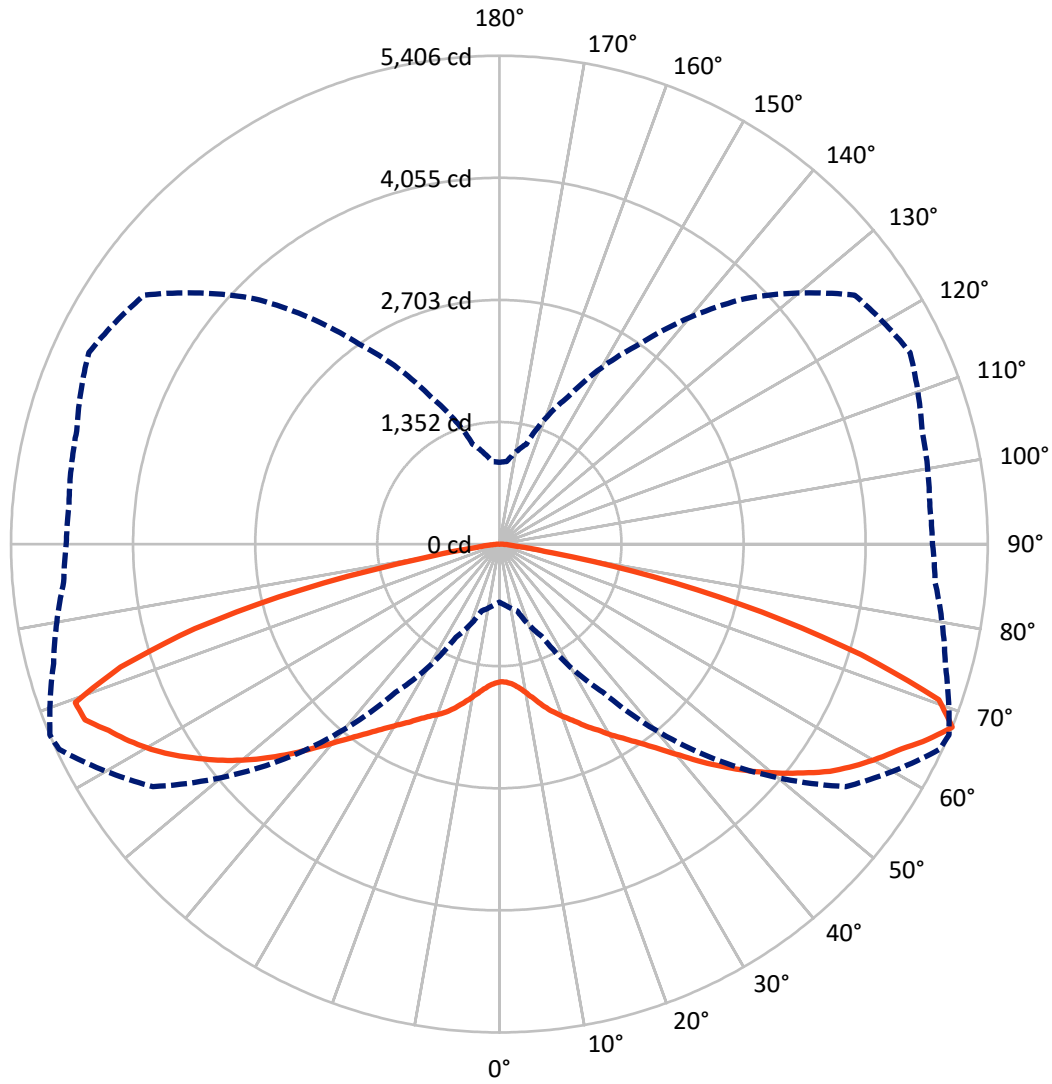
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7433.5	0.0	7433.5
	% Fixture	49.4	0.0	49.4
<b>Street Side</b>	Lumens	7599.4	0.0	7599.4
	% Fixture	50.6	0.0	50.6
<b>Total</b>	Lumens	15032.8	0.0	15032.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	149.3	1.0
10°-20°	504.5	3.4
20°-30°	989.9	6.6
30°-40°	1686.5	11.2
40°-50°	2708.1	18.0
50°-60°	3679.8	24.5
60°-70°	3519.9	23.4
70°-80°	1673.5	11.1
80°-90°	121.3	0.8
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°	15032.8	100.0
0°-180°	15032.8	100.0

**Coefficient of Utilization**



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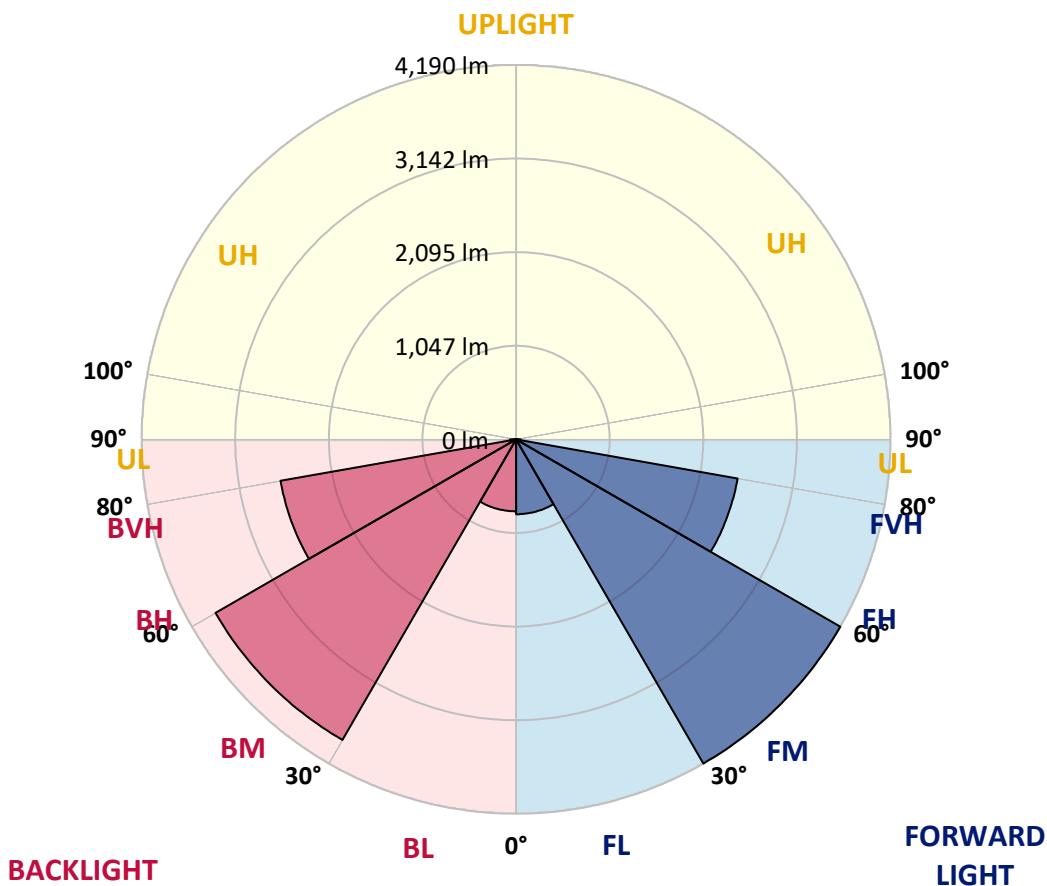
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	838.2	5.6			
FM (30°-60°)	4189.8	27.9			
FH (60°-80°)	2516.9	16.7			G2/5000
FVH (80°-90°)	54.5	0.4			G1/100
BL (0°-30°)	805.6	5.4	B2/1000		
BM (30°-60°)	3884.5	25.8	B3/5000		
BH (60°-80°)	2676.6	17.8	B4/5000		G4/5000
BVH (80°-90°)	66.8	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G4**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1522.2	1522.2	1522.2	1522.2	1522.2	1522.2	1522.2	1522.2	1522.2	1522.2	1522.2
2.5°	1490.7	1492.8	1496.0	1502.3	1508.5	1518.0	1527.4	1526.3	1530.5	1533.7	1536.8
5°	1482.4	1484.5	1489.7	1498.1	1507.5	1523.2	1543.1	1551.5	1557.7	1569.3	1579.7
7.5°	1500.2	1504.4	1511.7	1523.2	1537.9	1557.7	1585.0	1599.6	1609.0	1630.0	1647.8
10°	1524.2	1529.5	1544.1	1566.1	1588.1	1618.5	1653.0	1675.0	1681.3	1708.5	1742.0
12.5°	1547.3	1553.6	1577.6	1617.4	1657.2	1698.0	1738.9	1766.1	1768.2	1804.8	1842.5
15°	1583.9	1589.2	1621.6	1672.9	1733.6	1790.2	1840.4	1859.2	1867.6	1893.8	1940.9
17.5°	1664.5	1670.8	1712.7	1768.2	1832.0	1891.7	1942.0	1957.7	1957.7	1979.6	2018.4
20°	1751.4	1757.7	1813.2	1884.4	1961.8	2022.6	2061.3	2046.6	2041.4	2047.7	2074.9
22.5°	1848.8	1860.3	1913.7	1996.4	2091.7	2166.0	2185.9	2141.9	2127.2	2112.6	2118.9
25°	1973.4	1987.0	2039.3	2127.2	2220.4	2298.9	2310.5	2242.4	2234.0	2182.7	2163.9
27.5°	2116.8	2127.2	2192.2	2279.0	2365.9	2431.9	2444.5	2360.7	2332.4	2261.2	2217.3
30°	2302.1	2311.5	2368.0	2453.9	2529.2	2575.3	2591.0	2475.9	2453.9	2345.0	2277.0
32.5°	2504.1	2508.3	2565.9	2648.6	2715.6	2759.6	2737.6	2603.6	2571.1	2448.6	2355.5
35°	2735.5	2735.5	2809.8	2876.8	2930.2	2942.8	2900.9	2748.0	2710.4	2577.4	2461.2
37.5°	2962.7	2968.9	3038.0	3117.6	3164.7	3162.6	3086.2	2918.7	2875.8	2731.3	2602.5
40°	3208.7	3222.3	3291.4	3380.4	3425.4	3419.1	3301.8	3115.5	3071.5	2900.9	2775.3
42.5°	3434.8	3456.8	3537.4	3628.5	3677.7	3673.5	3551.0	3341.6	3298.7	3106.1	2980.5
45°	3614.9	3637.9	3738.4	3865.1	3943.6	3936.2	3812.7	3576.1	3523.8	3321.7	3183.5
47.5°	3772.9	3797.0	3909.0	4043.0	4167.6	4180.2	4067.1	3812.7	3757.2	3553.1	3397.1
50°	3894.4	3905.9	4031.5	4178.1	4322.5	4392.7	4294.3	4050.4	3983.4	3781.3	3605.4
52.5°	3884.9	3900.7	4055.6	4254.5	4448.2	4563.3	4495.3	4274.4	4209.5	3989.6	3817.9
55°	3693.4	3709.1	3893.3	4183.3	4518.3	4687.9	4680.6	4487.9	4440.8	4202.2	4038.8
57.5°	3413.9	3448.4	3631.6	3944.6	4426.2	4787.4	4816.7	4682.7	4633.5	4410.5	4257.6
60°	2913.5	2959.5	3171.0	3577.2	4131.0	4753.9	4962.2	4847.0	4816.7	4604.2	4455.5
62.5°	2116.8	2150.3	2431.9	2964.7	3693.4	4515.2	5084.7	5016.6	4993.6	4777.9	4634.5
65°	1267.8	1344.2	1570.3	2096.9	2979.4	4065.0	5017.7	5238.6	5214.5	4956.9	4787.4
67.5°	641.7	676.3	765.3	1136.9	2003.7	3363.6	4681.6	5376.7	5406.1	5109.8	4841.8
70°	397.8	407.2	432.4	561.1	1000.8	2210.0	3828.4	5016.6	5160.0	5085.7	4700.5
72.5°	319.3	321.4	325.6	349.7	480.5	1033.3	2420.4	3928.9	4187.5	4749.7	4498.4
75°	264.9	265.9	267.0	274.3	299.4	421.9	1177.7	2699.9	3002.4	4036.7	4170.7
77.5°	212.5	207.3	211.5	214.6	220.9	235.5	406.2	1440.5	1747.2	2649.6	3225.4
80°	138.2	136.1	144.5	147.6	153.9	163.3	216.7	488.9	593.6	964.2	1025.9
82.5°	74.3	70.1	87.9	84.8	87.9	95.3	127.7	179.0	201.0	291.0	246.0
85°	23.0	23.0	24.1	28.3	34.5	33.5	55.5	87.9	97.4	124.6	92.1
87.5°	4.2	4.2	4.2	4.2	4.2	5.2	11.5	17.8	24.1	42.9	32.5
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°	1522.2	1522.2	1522.2	1522.2	1522.2	1522.2	1522.2	1522.2	1522.2	1522.2	1522.2
2.5°	1543.1	1533.7	1538.9	1542.0	1541.0	1538.9	1528.4	1526.3	1521.1	1512.7	1510.6
5°	1589.2	1578.7	1579.7	1576.6	1566.1	1552.5	1529.5	1518.0	1508.5	1498.1	1497.0
7.5°	1661.4	1649.9	1646.7	1632.1	1602.8	1571.4	1534.7	1513.8	1498.1	1484.5	1482.4
10°	1753.5	1742.0	1731.5	1697.0	1648.8	1607.0	1558.8	1528.4	1505.4	1488.7	1485.5
12.5°	1856.1	1846.7	1820.5	1770.3	1712.7	1663.5	1614.3	1576.6	1543.1	1518.0	1514.8
15°	1970.2	1949.3	1909.5	1844.6	1790.2	1750.4	1690.7	1639.4	1586.0	1552.5	1545.2
17.5°	2049.8	2032.0	1984.9	1922.1	1879.1	1844.6	1774.5	1701.2	1628.9	1579.7	1569.3
20°	2106.3	2087.5	2034.1	1988.0	1974.4	1945.1	1863.4	1778.6	1694.9	1634.2	1620.6
22.5°	2147.1	2127.2	2072.8	2049.8	2068.6	2063.4	1983.8	1887.5	1788.1	1715.8	1699.1
25°	2185.9	2167.0	2118.9	2127.2	2177.5	2193.2	2107.4	1995.3	1882.3	1797.5	1777.6
27.5°	2222.5	2198.4	2176.5	2222.5	2293.7	2323.0	2231.9	2105.3	1982.8	1895.9	1880.2
30°	2279.0	2250.8	2247.6	2314.6	2427.7	2452.8	2352.3	2225.7	2104.2	2016.3	1996.4
32.5°	2350.2	2324.1	2326.2	2426.7	2557.5	2578.5	2492.6	2374.3	2252.9	2164.9	2137.7
35°	2446.5	2414.1	2431.9	2555.4	2687.3	2726.1	2657.0	2558.6	2440.3	2350.2	2319.9
37.5°	2579.5	2532.4	2569.0	2698.8	2831.8	2889.4	2836.0	2762.7	2645.5	2554.4	2526.1
40°	2749.1	2710.4	2725.0	2868.4	3005.6	3074.7	3041.2	2968.9	2852.7	2757.5	2725.0
42.5°	2950.1	2911.4	2906.1	3059.0	3196.1	3300.8	3268.3	3202.4	3082.0	2973.1	2941.7
45°	3146.9	3111.3	3118.6	3274.6	3428.5	3542.6	3510.2	3432.7	3301.8	3176.2	3151.1
47.5°	3352.1	3322.8	3329.1	3494.5	3664.1	3778.2	3737.3	3643.1	3490.3	3356.3	3325.9
50°	3562.5	3529.0	3538.4	3712.2	3895.4	4003.2	3940.4	3801.2	3632.7	3501.8	3475.6
52.5°	3771.9	3732.1	3756.2	3920.5	4110.0	4195.9	4079.7	3911.1	3747.8	3618.0	3588.7
55°	4012.7	3970.8	3944.6	4120.5	4307.9	4343.5	4184.4	3987.5	3793.9	3646.3	3628.5
57.5°	4232.5	4196.9	4147.7	4323.6	4461.8	4435.6	4265.0	3966.6	3681.9	3492.4	3467.2
60°	4429.3	4399.0	4356.0	4505.7	4568.6	4509.9	4200.1	3718.5	3405.5	3207.6	3196.1
62.5°	4610.4	4578.0	4538.2	4665.9	4657.5	4521.4	3904.8	3337.4	2918.7	2706.2	2687.3
65°	4753.9	4724.5	4713.0	4813.5	4799.9	4296.4	3445.3	2713.5	2132.5	1892.7	1885.4
67.5°	4794.7	4783.2	4844.9	5015.6	4803.1	3844.1	2702.0	1799.6	1145.3	918.1	904.5
70°	4641.8	4640.8	4817.7	5061.6	4367.6	2936.5	1594.4	811.3	575.8	510.9	502.5
72.5°	4442.9	4439.8	4580.1	4366.5	3239.0	1607.0	671.0	434.5	360.1	342.3	342.3
75°	4116.3	4107.9	4213.7	3321.7	1821.6	605.1	355.9	298.4	282.7	279.5	279.5
77.5°	3355.2	3285.1	3118.6	2052.9	635.5	297.3	235.5	234.5	225.1	224.0	224.0
80°	1103.4	1103.4	1282.4	783.1	280.6	183.2	166.5	174.8	165.4	159.1	158.1
82.5°	180.1	248.1	352.8	224.0	151.8	114.1	102.6	108.9	114.1	91.1	91.1
85°	71.2	93.2	136.1	104.7	70.1	46.1	49.2	54.4	48.2	41.9	40.8
87.5°	27.2	33.5	48.2	25.1	14.7	8.4	5.2	5.2	4.2	4.2	4.2
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)