

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: P636818

Luminaire Tested: GWS-SA4B-750-U-RW-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636818
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-750-U-RW-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15241.7 lumens
Efficiency: N/A
Efficacy: 161.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G4

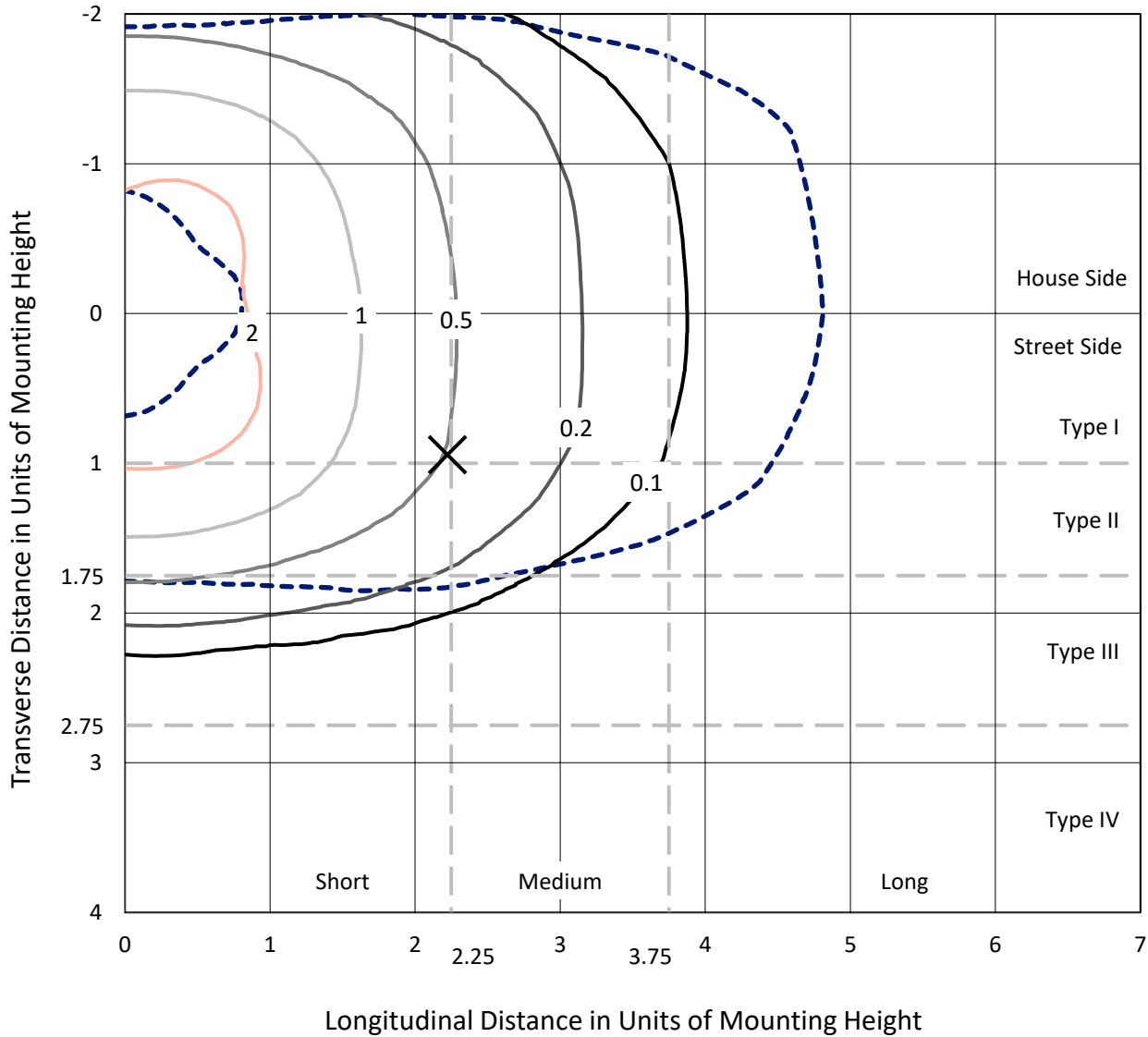
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

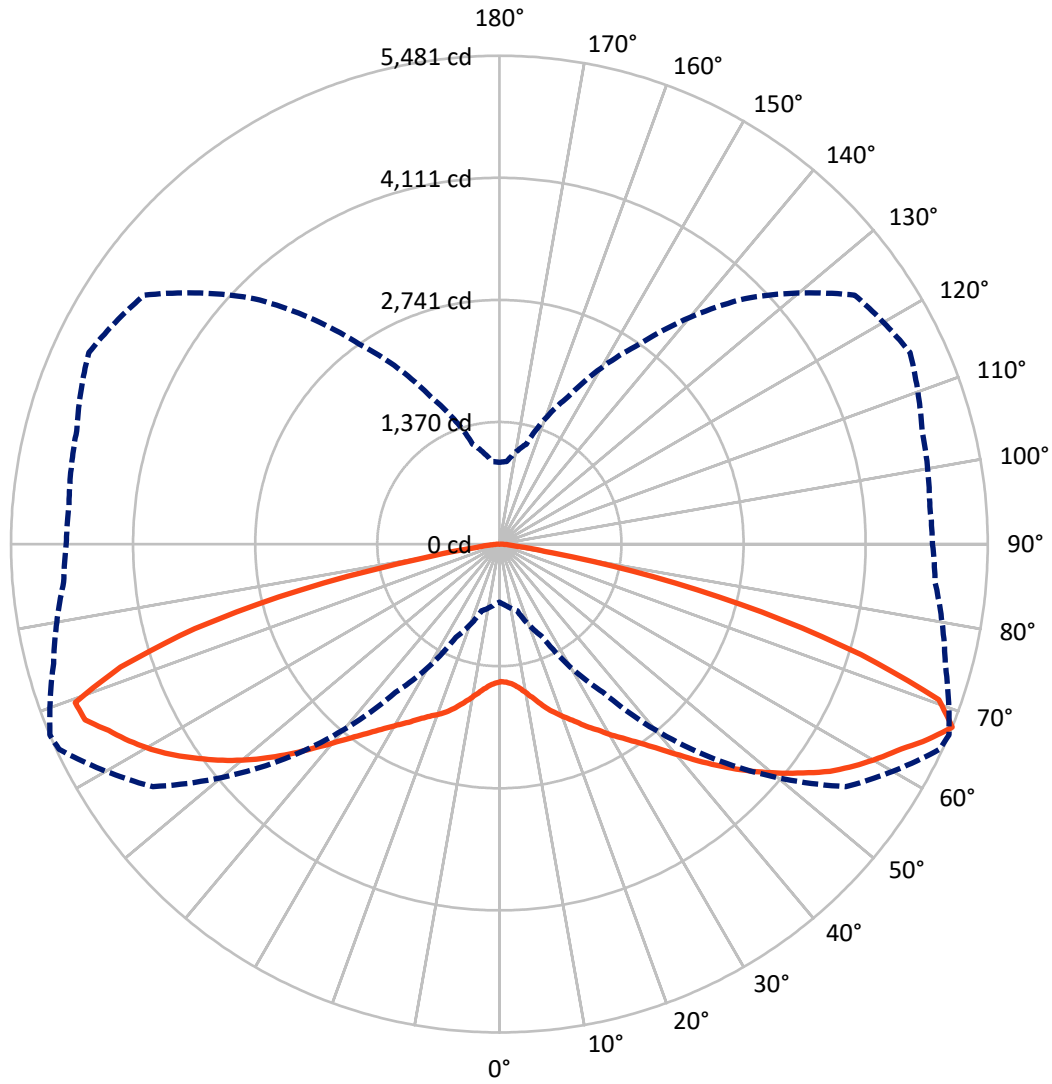
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 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
House Side	Lumens	7536.7	0.0	7536.7
	% Fixture	49.4	0.0	49.4
Street Side	Lumens	7705.0	0.0	7705.0
	% Fixture	50.6	0.0	50.6
Total	Lumens	15241.7	0.0	15241.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.4	1.0
10°-20°	511.5	3.4
20°-30°	1003.6	6.6
30°-40°	1709.9	11.2
40°-50°	2745.7	18.0
50°-60°	3730.9	24.5
60°-70°	3568.8	23.4
70°-80°	1696.8	11.1
80°-90°	123.0	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°	15241.7	100.0
0°-180°	15241.7	100.0

Coefficient of Utilization



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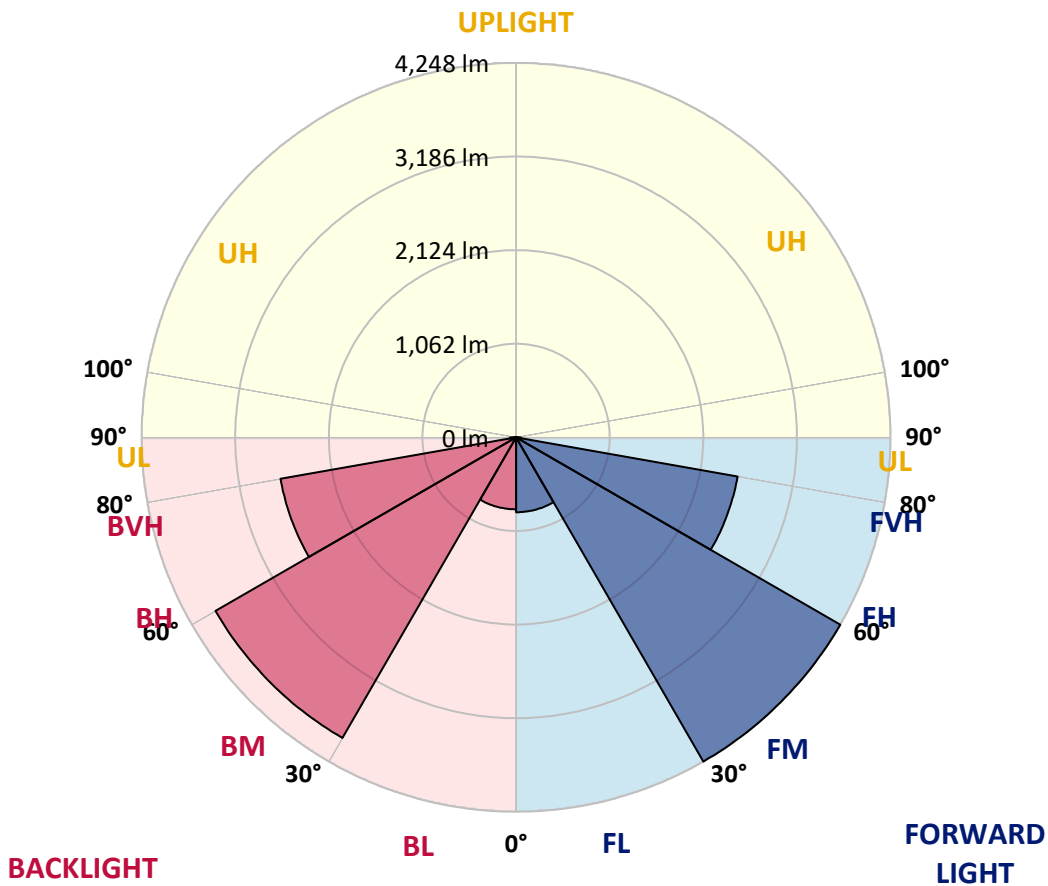
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	849.8	5.6			
FM (30°-60°)	4248.0	27.9			
FH (60°-80°)	2551.9	16.7			G2/5000
FVH (80°-90°)	55.3	0.4			G1/100
BL (0°-30°)	816.8	5.4	B2/1000		
BM (30°-60°)	3938.5	25.8	B3/5000		
BH (60°-80°)	2713.8	17.8	B4/5000		G4/5000
BVH (80°-90°)	67.7	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°	1543.3	1543.3	1543.3	1543.3	1543.3	1543.3	1543.3	1543.3	1543.3	1543.3	1543.3
2.5°	1511.5	1513.6	1516.8	1523.1	1529.5	1539.1	1548.6	1547.6	1551.8	1555.0	1558.2
5°	1503.0	1505.1	1510.4	1518.9	1528.4	1544.4	1564.5	1573.0	1579.4	1591.1	1601.7
7.5°	1521.0	1525.3	1532.7	1544.4	1559.2	1579.4	1607.0	1621.9	1631.4	1652.6	1670.7
10°	1545.4	1550.7	1565.6	1587.9	1610.2	1641.0	1676.0	1698.3	1704.6	1732.2	1766.2
12.5°	1568.8	1575.1	1599.6	1639.9	1680.2	1721.6	1763.0	1790.6	1792.7	1829.9	1868.1
15°	1605.9	1611.2	1644.1	1696.2	1757.7	1815.0	1866.0	1885.1	1893.6	1920.1	1967.9
17.5°	1687.7	1694.0	1736.5	1792.7	1857.5	1918.0	1968.9	1984.9	1984.9	2007.1	2046.4
20°	1775.8	1782.1	1838.4	1910.6	1989.1	2050.7	2089.9	2075.1	2069.8	2076.1	2103.7
22.5°	1874.5	1886.1	1940.3	2024.1	2120.7	2196.1	2216.2	2171.7	2156.8	2141.9	2148.3
25°	2000.8	2014.6	2067.6	2156.8	2251.3	2330.9	2342.6	2273.6	2265.1	2213.1	2194.0
27.5°	2146.2	2156.8	2222.6	2310.7	2398.8	2465.7	2478.4	2393.5	2364.8	2292.7	2248.1
30°	2334.1	2343.6	2400.9	2488.0	2564.4	2611.1	2627.0	2510.3	2488.0	2377.6	2308.6
32.5°	2538.9	2543.2	2601.5	2685.4	2753.3	2797.9	2775.6	2639.8	2606.9	2482.7	2388.2
35°	2773.5	2773.5	2848.9	2916.8	2970.9	2983.7	2941.2	2786.2	2748.0	2613.2	2495.4
37.5°	3003.8	3010.2	3080.2	3160.9	3208.7	3206.6	3129.1	2959.2	2915.7	2769.2	2638.7
40°	3253.3	3267.1	3337.1	3427.3	3473.0	3466.6	3347.7	3158.8	3114.2	2941.2	2813.8
42.5°	3482.5	3504.8	3586.5	3678.9	3728.8	3724.5	3600.3	3388.1	3344.5	3149.2	3021.9
45°	3665.1	3688.4	3790.3	3918.8	3998.4	3990.9	3865.7	3625.8	3572.7	3367.9	3227.8
47.5°	3825.4	3849.8	3963.3	4099.2	4225.5	4238.3	4123.6	3865.7	3809.4	3602.5	3444.3
50°	3948.5	3960.2	4087.5	4236.1	4382.6	4453.7	4354.0	4106.6	4038.7	3833.9	3655.5
52.5°	3938.9	3954.9	4111.9	4313.6	4510.0	4626.7	4557.7	4333.8	4268.0	4045.1	3871.0
55°	3744.7	3760.6	3947.4	4241.4	4581.1	4753.0	4745.6	4550.3	4502.6	4260.5	4095.0
57.5°	3461.3	3496.3	3682.1	3999.4	4487.7	4853.9	4883.6	4747.7	4697.9	4471.8	4316.8
60°	2953.9	3000.6	3215.0	3626.9	4188.4	4819.9	5031.1	4914.4	4883.6	4668.1	4517.4
62.5°	2146.2	2180.2	2465.7	3005.9	3744.7	4577.9	5155.3	5086.3	5063.0	4844.3	4698.9
65°	1285.4	1362.9	1592.1	2126.0	3020.8	4121.5	5087.4	5311.4	5286.9	5025.8	4853.9
67.5°	650.7	685.7	775.9	1152.7	2031.6	3410.3	4746.7	5451.5	5481.2	5180.8	4909.1
70°	403.3	412.9	438.4	568.9	1014.7	2240.7	3881.6	5086.3	5231.7	5156.4	4765.8
72.5°	323.7	325.9	330.1	354.5	487.2	1047.6	2454.0	3983.5	4245.7	4815.7	4560.9
75°	268.5	269.6	270.7	278.1	303.6	427.8	1194.1	2737.4	3044.2	4092.8	4228.7
77.5°	215.5	210.2	214.4	217.6	224.0	238.8	411.8	1460.5	1771.5	2686.5	3270.2
80°	140.1	138.0	146.5	149.7	156.0	165.6	219.7	495.7	601.8	977.6	1040.2
82.5°	75.4	71.1	89.2	86.0	89.2	96.6	129.5	181.5	203.8	295.1	249.4
85°	23.4	23.4	24.4	28.7	35.0	34.0	56.3	89.2	98.7	126.3	93.4
87.5°	4.2	4.2	4.2	4.2	4.2	5.3	11.7	18.0	24.4	43.5	32.9
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°	1543.3	1543.3	1543.3	1543.3	1543.3	1543.3	1543.3	1543.3	1543.3	1543.3	1543.3
2.5°	1564.5	1555.0	1560.3	1563.5	1562.4	1560.3	1549.7	1547.6	1542.2	1533.8	1531.6
5°	1611.2	1600.6	1601.7	1598.5	1587.9	1574.1	1550.7	1539.1	1529.5	1518.9	1517.8
7.5°	1684.5	1672.8	1669.6	1654.8	1625.0	1593.2	1556.0	1534.8	1518.9	1505.1	1503.0
10°	1777.9	1766.2	1755.6	1720.6	1671.7	1629.3	1580.5	1549.7	1526.3	1509.3	1506.2
12.5°	1881.9	1872.3	1845.8	1794.9	1736.5	1686.6	1636.7	1598.5	1564.5	1539.1	1535.9
15°	1997.6	1976.4	1936.0	1870.2	1815.0	1774.7	1714.2	1662.2	1608.1	1574.1	1566.7
17.5°	2078.3	2060.2	2012.5	1948.8	1905.3	1870.2	1799.1	1724.8	1651.6	1601.7	1591.1
20°	2135.6	2116.5	2062.3	2015.6	2001.8	1972.1	1889.3	1803.4	1718.4	1656.9	1643.1
22.5°	2177.0	2156.8	2101.6	2078.3	2097.4	2092.1	2011.4	1913.7	1812.9	1739.7	1722.7
25°	2216.2	2197.1	2148.3	2156.8	2207.8	2223.7	2136.6	2023.1	1908.4	1822.5	1802.3
27.5°	2253.4	2229.0	2206.7	2253.4	2325.6	2355.3	2263.0	2134.5	2010.3	1922.2	1906.3
30°	2310.7	2282.1	2278.9	2346.8	2461.4	2486.9	2385.0	2256.6	2133.5	2044.3	2024.1
32.5°	2382.9	2356.4	2358.5	2460.4	2593.1	2614.3	2527.2	2407.3	2284.2	2195.0	2167.4
35°	2480.5	2447.6	2465.7	2590.9	2724.7	2763.9	2693.9	2594.1	2474.2	2382.9	2352.1
37.5°	2615.3	2567.6	2604.7	2736.3	2871.1	2929.5	2875.4	2801.1	2682.2	2589.9	2561.2
40°	2787.3	2748.0	2762.9	2908.3	3047.3	3117.4	3083.4	3010.2	2892.4	2795.8	2762.9
42.5°	2991.1	2951.8	2946.5	3101.5	3240.5	3346.7	3313.8	3246.9	3124.8	3014.4	2982.6
45°	3190.6	3154.5	3162.0	3320.1	3476.2	3591.9	3558.9	3480.4	3347.7	3220.4	3194.9
47.5°	3398.7	3369.0	3375.3	3543.0	3715.0	3830.7	3789.3	3693.7	3538.8	3402.9	3372.1
50°	3612.0	3578.1	3587.6	3763.8	3949.5	4058.9	3995.2	3854.0	3683.1	3550.5	3523.9
52.5°	3824.3	3784.0	3808.4	3975.0	4167.1	4254.2	4136.4	3965.5	3799.9	3668.3	3638.6
55°	4068.4	4026.0	3999.4	4177.8	4367.8	4403.8	4242.5	4043.0	3846.6	3696.9	3678.9
57.5°	4291.3	4255.2	4205.4	4383.7	4523.8	4497.2	4324.2	4021.7	3733.0	3540.9	3515.4
60°	4490.9	4460.1	4416.6	4568.4	4632.0	4572.6	4258.4	3770.2	3452.8	3252.2	3240.5
62.5°	4674.5	4641.6	4601.3	4730.8	4722.3	4584.3	3959.1	3383.8	2959.2	2743.8	2724.7
65°	4819.9	4790.2	4778.5	4880.4	4866.6	4356.1	3493.1	2751.2	2162.1	1919.1	1911.6
67.5°	4861.3	4849.6	4912.3	5085.3	4869.8	3897.5	2739.5	1824.6	1161.2	930.9	917.1
70°	4706.3	4705.3	4884.7	5132.0	4428.3	2977.3	1616.5	822.6	583.8	518.0	509.5
72.5°	4504.7	4501.5	4643.7	4427.2	3284.0	1629.3	680.4	440.5	365.1	347.1	347.1
75°	4173.5	4165.0	4272.2	3367.9	1846.9	613.5	360.9	302.5	286.6	283.4	283.4
77.5°	3401.9	3330.7	3162.0	2081.4	644.3	301.4	238.8	237.8	228.2	227.1	227.1
80°	1118.7	1118.7	1300.2	793.9	284.5	185.7	168.8	177.3	167.7	161.3	160.3
82.5°	182.6	251.6	357.7	227.1	153.9	115.7	104.0	110.4	115.7	92.3	92.3
85°	72.2	94.5	138.0	106.1	71.1	46.7	49.9	55.2	48.8	42.5	41.4
87.5°	27.6	34.0	48.8	25.5	14.9	8.5	5.3	5.3	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)