

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: P636904

Luminaire Tested: GWS-SA4B-760-U-T3-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636904
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-23)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4B-760-U-T3-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: (64) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14613 lumens
Efficiency: N/A
Efficacy: 154.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

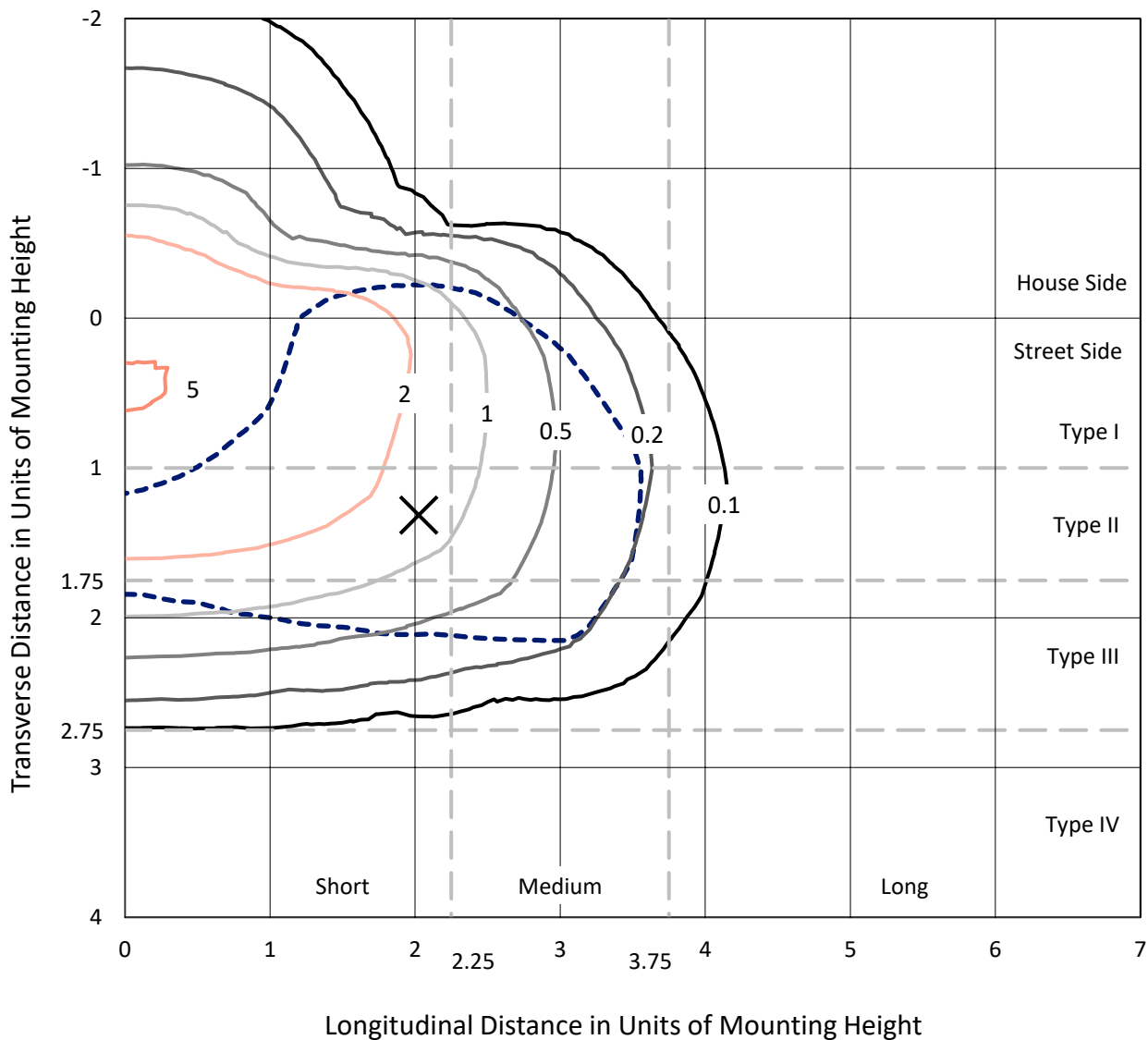
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

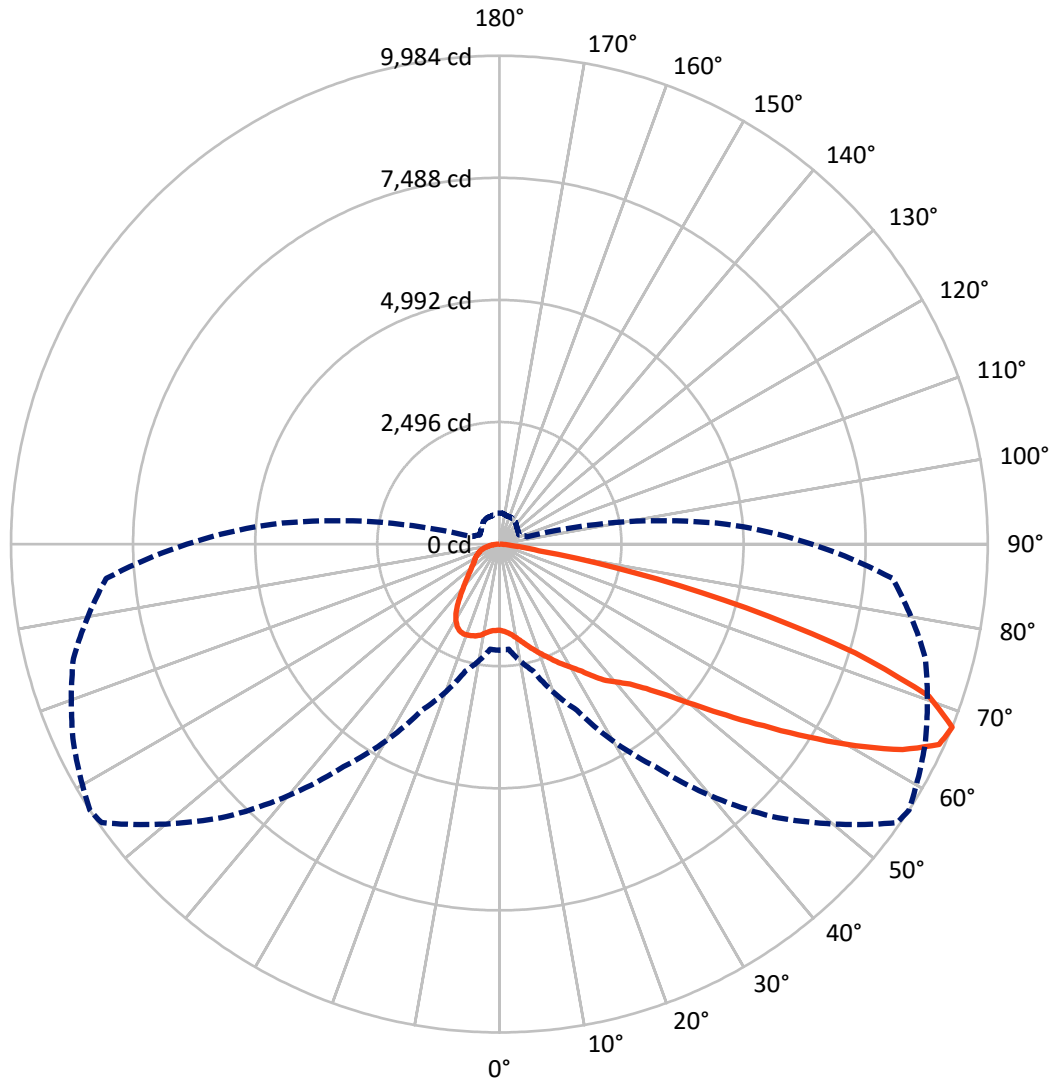
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3212.8	0.0	3212.8
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	11400.2	0.0	11400.2
	% Fixture	78.0	0.0	78.0
Total	Lumens	14613.0	0.0	14613.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.6	1.2
10°-20°	578.1	4.0
20°-30°	1030.7	7.1
30°-40°	1498.5	10.3
40°-50°	2168.8	14.8
50°-60°	3394.1	23.2
60°-70°	3959.4	27.1
70°-80°	1652.8	11.3
80°-90°	156.0	1.1
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°	14613.0	100.0
0°-180°	14613.0	100.0

Coefficient of Utilization



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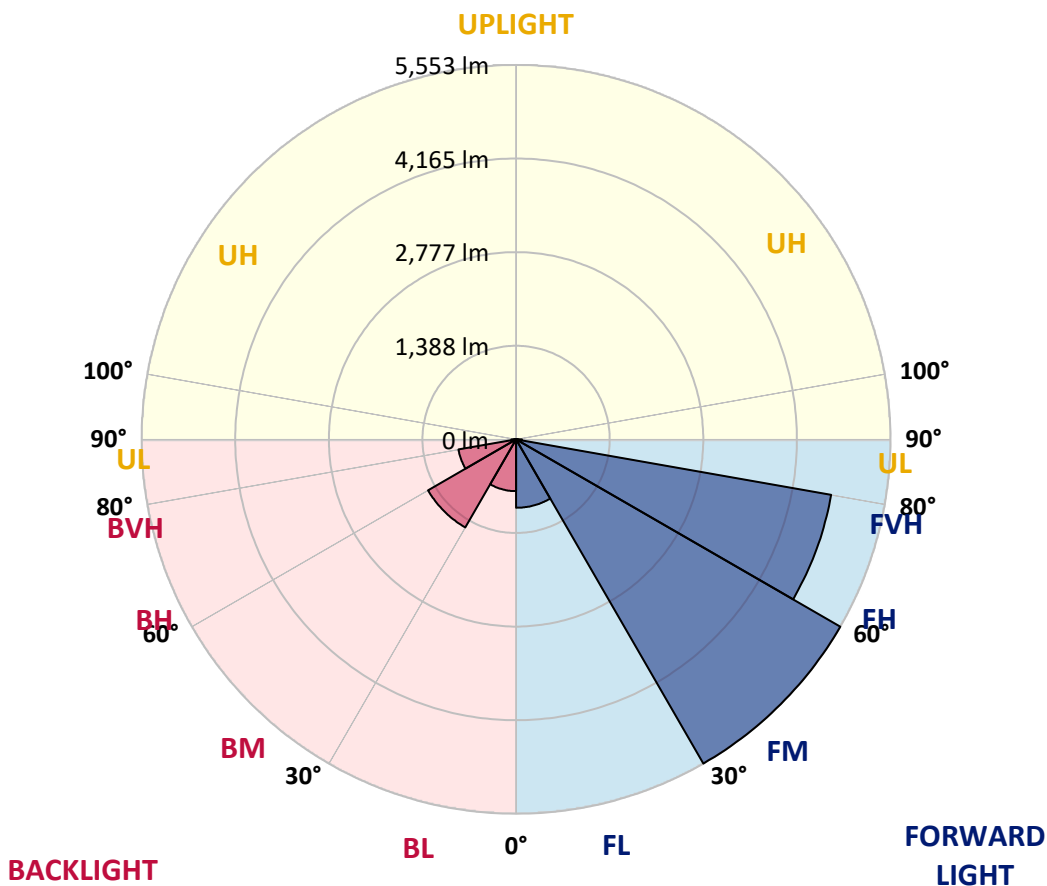
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1015.0	6.9			
FM (30°-60°)	5553.2	38.0			
FH (60°-80°)	4745.1	32.5			G2/5000
FVH (80°-90°)	86.9	0.6			G1/100
BL (0°-30°)	768.4	5.3	B2/1000		
BM (30°-60°)	1508.2	10.3	B2/2500		
BH (60°-80°)	867.2	5.9	B2/1000		G2/1000
BVH (80°-90°)	69.1	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	1760.8	1760.8	1760.8	1760.8	1760.8	1760.8	1760.8	1760.8	1760.8	1760.8	1760.8
2.5°	1785.9	1783.8	1782.8	1789.0	1786.9	1785.9	1785.9	1784.8	1782.8	1774.4	1762.9
5°	1835.1	1830.9	1826.7	1832.0	1827.8	1823.6	1822.5	1820.4	1813.1	1800.5	1782.8
7.5°	1886.4	1882.2	1883.2	1886.4	1883.2	1881.2	1878.0	1875.9	1864.4	1844.5	1820.4
10°	1958.6	1958.6	1960.7	1963.9	1964.9	1961.8	1955.5	1952.3	1938.7	1913.6	1880.1
12.5°	2063.3	2061.2	2061.2	2059.1	2062.3	2059.1	2052.8	2047.6	2030.8	1998.4	1950.2
15°	2201.5	2193.1	2185.8	2172.2	2168.0	2156.5	2158.6	2155.4	2139.7	2095.8	2035.0
17.5°	2349.1	2348.0	2336.5	2309.3	2282.1	2263.2	2267.4	2266.4	2258.0	2198.3	2120.9
20°	2478.9	2484.1	2473.7	2452.7	2416.1	2380.5	2378.4	2383.6	2373.2	2313.5	2205.7
22.5°	2624.4	2620.2	2609.7	2582.5	2555.3	2517.6	2505.1	2500.9	2496.7	2428.6	2292.6
25°	2762.6	2775.1	2761.5	2736.4	2694.5	2653.7	2643.2	2647.4	2635.9	2545.9	2385.7
27.5°	2937.4	2942.6	2934.3	2899.7	2864.1	2806.5	2786.7	2786.7	2782.5	2655.8	2459.0
30°	3123.7	3138.4	3123.7	3095.5	3058.8	2976.1	2933.2	2929.0	2916.5	2768.9	2544.8
32.5°	3311.1	3321.6	3311.1	3283.9	3242.0	3169.8	3108.0	3098.6	3081.9	2892.4	2632.8
35°	3477.6	3487.0	3484.9	3491.2	3456.6	3365.6	3327.9	3323.7	3279.7	3053.6	2752.1
37.5°	3659.7	3671.2	3655.5	3668.1	3654.5	3568.6	3557.1	3536.2	3473.4	3205.4	2877.7
40°	3867.0	3877.5	3852.3	3857.6	3841.9	3793.7	3735.1	3706.8	3613.7	3369.7	3075.6
42.5°	4088.9	4113.0	4124.5	4115.1	4078.4	4051.2	3948.6	3913.0	3835.6	3666.0	3401.1
45°	4410.3	4445.9	4462.6	4438.6	4422.9	4384.1	4258.5	4215.6	4174.8	4083.7	3855.5
47.5°	4756.8	4789.2	4842.6	4853.1	4865.7	4836.4	4659.4	4617.6	4624.9	4614.4	4414.5
50°	5033.2	5060.4	5180.8	5309.5	5416.3	5424.7	5198.6	5153.5	5193.3	5226.8	5087.6
52.5°	5234.1	5258.2	5417.3	5683.2	5925.1	6104.1	5860.2	5808.9	5841.3	5916.7	5852.8
55°	5397.5	5431.0	5597.4	6005.7	6494.5	6777.2	6621.2	6556.3	6542.7	6635.9	6672.5
57.5°	5483.3	5493.8	5727.2	6257.9	6912.2	7437.7	7505.8	7432.5	7302.7	7354.0	7544.5
60°	5287.5	5305.3	5624.6	6322.8	7242.0	8093.0	8434.3	8373.6	8097.2	8125.5	8335.9
62.5°	4746.3	4771.4	5155.6	6014.0	7269.2	8530.6	9291.7	9252.9	8882.3	8729.5	8792.3
65°	3807.3	3815.7	4213.5	5249.8	6728.0	8585.0	9889.4	9880.0	9430.9	9072.9	8803.8
67.5°	2171.1	2156.5	2688.3	3744.5	5552.4	7877.4	9928.1	9983.6	9608.8	9016.3	8071.1
70°	941.1	943.2	1188.2	1847.7	3593.8	6366.8	9221.5	9316.8	9093.8	8075.2	6421.3
72.5°	435.5	441.8	547.5	799.8	1534.7	3949.7	7519.4	7605.2	7413.6	6463.1	4672.0
75°	307.8	313.0	365.3	458.5	705.6	1538.8	5030.0	5210.1	5303.2	4834.3	3078.7
77.5°	233.4	240.8	266.9	318.2	435.5	545.4	2406.7	2835.9	3378.1	3007.5	1585.9
80°	148.6	148.6	176.9	212.5	265.9	283.7	695.1	823.9	1652.9	1239.4	622.9
82.5°	100.5	103.6	120.4	135.0	152.8	161.2	298.3	318.2	477.4	421.9	256.5
85°	53.4	55.5	62.8	61.8	73.3	63.9	125.6	124.6	174.8	191.6	97.4
87.5°	0.0	0.0	1.0	1.0	2.1	3.1	13.6	14.7	36.6	58.6	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°	1760.8	1760.8	1760.8	1760.8	1760.8	1760.8	1760.8	1760.8	1760.8	1760.8	1760.8
2.5°	1769.1	1756.6	1762.9	1760.8	1767.0	1767.0	1755.5	1752.4	1753.4	1740.9	1736.7
5°	1784.8	1770.2	1773.3	1769.1	1775.4	1780.7	1775.4	1775.4	1781.7	1772.3	1767.0
7.5°	1820.4	1803.7	1803.7	1798.5	1805.8	1810.0	1805.8	1812.1	1823.6	1814.2	1808.9
10°	1877.0	1857.1	1858.1	1851.8	1855.0	1852.9	1836.1	1830.9	1834.0	1825.7	1821.5
12.5°	1950.2	1923.0	1923.0	1910.5	1903.1	1881.2	1846.6	1834.0	1836.1	1828.8	1825.7
15°	2020.4	1995.3	1990.0	1964.9	1931.4	1890.6	1859.2	1850.8	1852.9	1845.6	1840.3
17.5°	2103.1	2070.6	2051.8	2005.7	1944.0	1902.1	1870.7	1850.8	1834.0	1817.3	1813.1
20°	2179.5	2138.7	2104.1	2032.9	1957.6	1900.0	1841.4	1792.2	1751.3	1729.4	1724.1
22.5°	2258.0	2205.7	2145.0	2051.8	1956.5	1862.3	1754.5	1680.2	1619.4	1587.0	1593.3
25°	2332.3	2266.4	2183.7	2069.6	1923.0	1778.6	1632.0	1521.0	1452.0	1426.8	1419.5
27.5°	2394.1	2312.4	2219.3	2061.2	1853.9	1658.2	1464.5	1341.0	1274.0	1245.7	1238.4
30°	2463.2	2371.1	2270.6	2022.5	1745.1	1489.6	1275.0	1174.5	1126.4	1099.2	1100.2
32.5°	2542.7	2446.4	2342.8	1948.1	1605.8	1307.5	1119.1	1050.0	1011.2	984.0	979.8
35°	2649.5	2554.3	2391.0	1836.1	1428.9	1140.0	1012.3	955.8	907.6	872.0	864.7
37.5°	2781.4	2716.5	2396.2	1686.4	1239.4	1024.8	935.9	875.1	816.5	769.4	764.2
40°	3007.5	2933.2	2353.3	1499.1	1078.2	950.5	872.0	801.9	733.8	681.5	674.2
42.5°	3330.0	3177.1	2261.2	1287.6	956.8	891.9	811.3	722.3	653.2	616.6	611.3
45°	3740.3	3449.3	2123.0	1088.7	866.8	834.3	747.4	654.3	617.6	591.5	586.2
47.5°	4242.8	3766.5	1963.9	933.8	796.6	782.0	682.5	631.2	598.8	576.8	571.6
50°	4843.7	4170.6	1833.0	812.3	733.8	721.3	661.6	617.6	591.5	573.7	569.5
52.5°	5529.4	4619.7	1769.1	725.5	679.4	666.8	654.3	614.5	592.5	578.9	573.7
55°	6241.2	5092.8	1709.5	658.5	633.3	640.7	655.3	625.0	608.2	590.4	585.2
57.5°	6929.0	5536.7	1562.9	606.1	599.8	628.1	660.5	635.4	615.5	597.7	591.5
60°	7403.2	5779.5	1314.8	564.2	574.7	612.4	646.9	619.7	594.6	587.3	584.1
62.5°	7530.9	5750.2	1020.7	521.3	544.4	577.8	611.3	593.6	567.4	578.9	579.9
65°	7232.5	5436.2	766.3	479.4	504.6	532.8	574.7	567.4	558.0	589.4	590.4
67.5°	6387.8	4664.7	584.1	442.8	463.7	498.3	563.2	593.6	595.6	635.4	631.2
70°	4833.2	3484.9	457.5	408.3	432.3	498.3	599.8	613.4	588.3	625.0	616.6
72.5°	3341.5	2299.9	389.4	377.9	393.6	475.3	598.8	598.8	571.6	571.6	555.9
75°	2075.9	1352.5	339.2	339.2	339.2	415.6	582.0	551.7	503.5	481.5	469.0
77.5°	1024.8	657.4	284.7	295.2	283.7	347.5	475.3	451.2	421.9	398.8	390.5
80°	437.6	328.7	230.3	241.8	228.2	261.7	376.9	371.6	343.4	313.0	303.6
82.5°	201.0	169.6	184.2	189.5	166.4	196.8	275.3	275.3	259.6	217.7	202.0
85°	85.8	90.0	127.7	127.7	104.7	111.0	147.6	140.3	125.6	102.6	94.2
87.5°	29.3	44.0	64.9	56.5	22.0	9.4	5.2	2.1	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)