

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: P633329

Luminaire Tested: GWS-SA2E-740-U-T3-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633329
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-SA2E-740-U-T3-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14601 lumens
Efficiency: N/A
Efficacy: 134.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

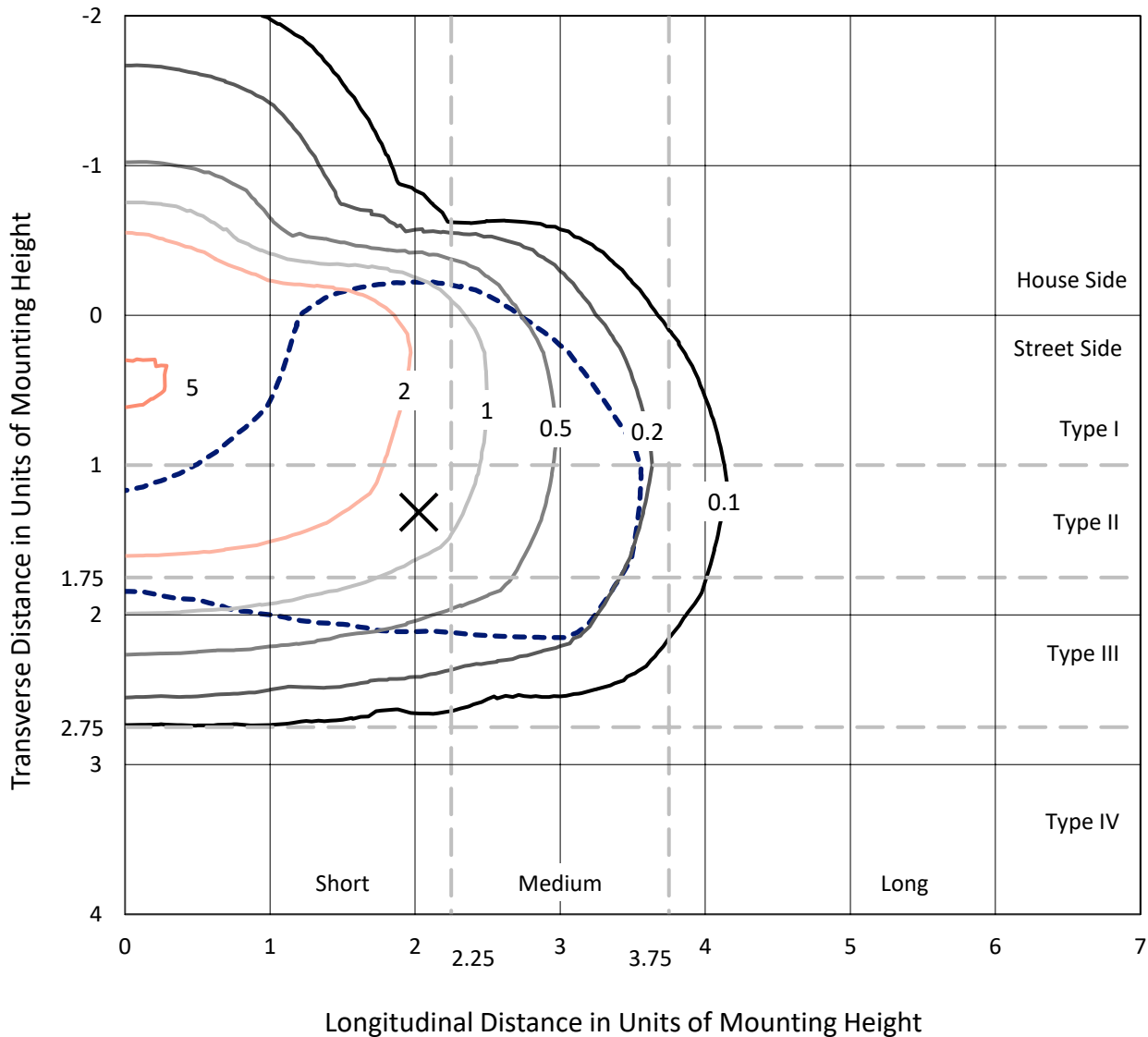
Input Watts (W): 108.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

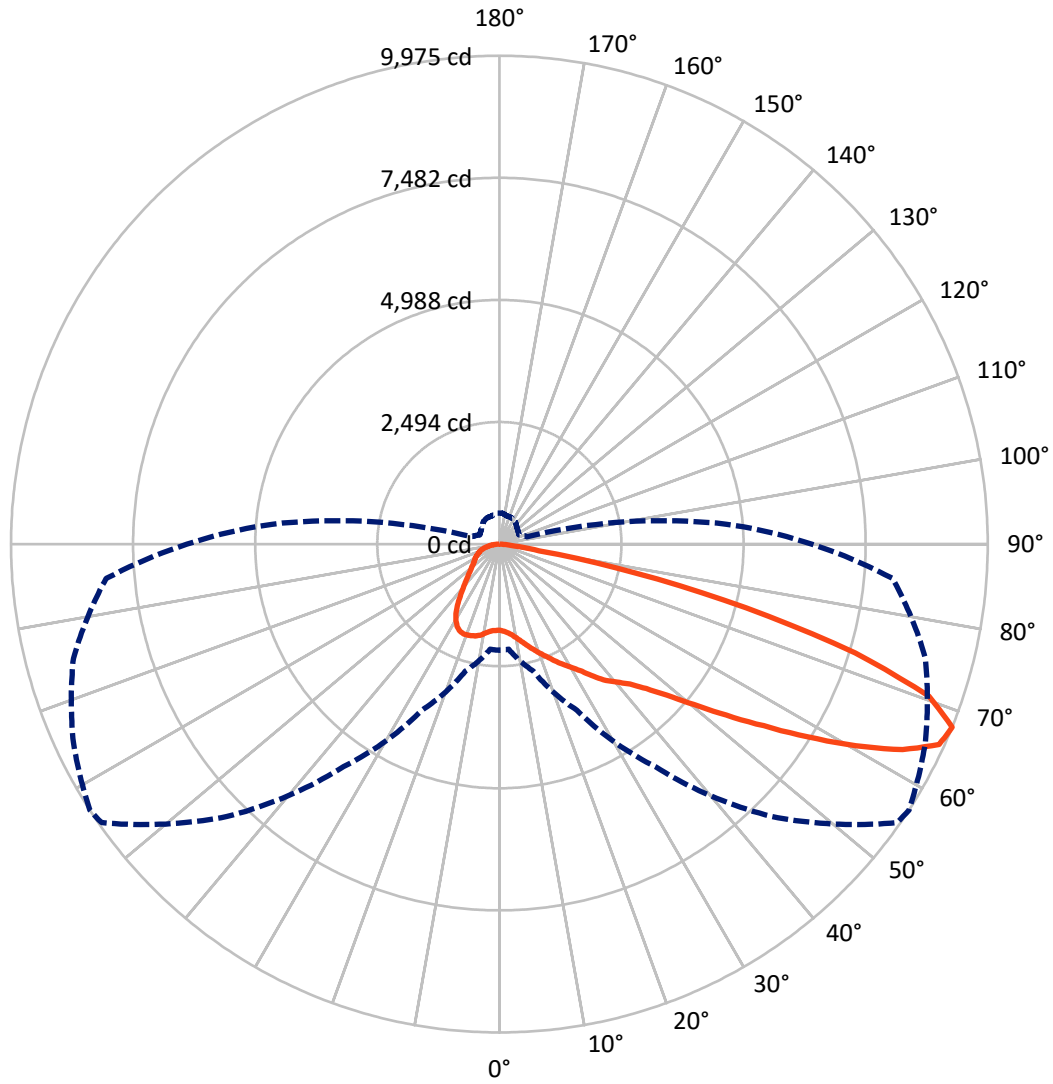
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.1 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	3210.2	0.0	3210.2
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	11390.8	0.0	11390.8
	% Fixture	78.0	0.0	78.0
Total	Lumens	14601.0	0.0	14601.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.5	1.2
10°-20°	577.6	4.0
20°-30°	1029.8	7.1
30°-40°	1497.2	10.3
40°-50°	2167.0	14.8
50°-60°	3391.3	23.2
60°-70°	3956.2	27.1
70°-80°	1651.5	11.3
80°-90°	155.8	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°	14601.0	100.0
0°-180°	14601.0	100.0

Coefficient of Utilization



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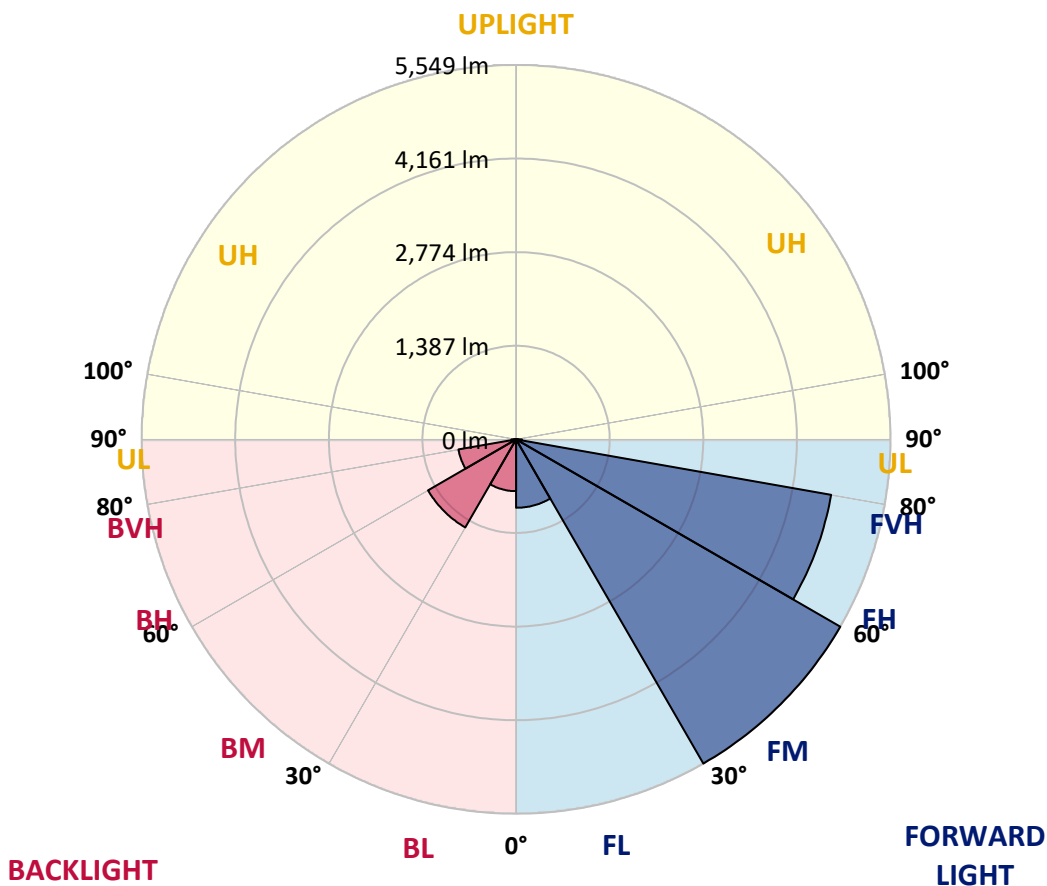
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1014.2	6.9			
FM (30°-60°)	5548.6	38.0			
FH (60°-80°)	4741.2	32.5			G2/5000
FVH (80°-90°)	86.8	0.6			G1/100
BL (0°-30°)	767.8	5.3	B2/1000		
BM (30°-60°)	1507.0	10.3	B2/2500		
BH (60°-80°)	866.4	5.9	B2/1000		G2/1000
BVH (80°-90°)	69.0	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°	1759.3	1759.3	1759.3	1759.3	1759.3	1759.3	1759.3	1759.3	1759.3	1759.3	1759.3
2.5°	1784.4	1782.3	1781.3	1787.6	1785.5	1784.4	1784.4	1783.4	1781.3	1772.9	1761.4
5°	1833.6	1829.4	1825.2	1830.4	1826.3	1822.1	1821.0	1818.9	1811.6	1799.1	1781.3
7.5°	1884.8	1880.7	1881.7	1884.8	1881.7	1879.6	1876.5	1874.4	1862.9	1843.0	1818.9
10°	1957.0	1957.0	1959.1	1962.2	1963.3	1960.1	1953.9	1950.7	1937.1	1912.0	1878.6
12.5°	2061.6	2059.5	2059.5	2057.4	2060.6	2057.4	2051.1	2045.9	2029.2	1996.8	1948.6
15°	2199.7	2191.3	2184.0	2170.4	2166.2	2154.7	2156.8	2153.7	2138.0	2094.0	2033.4
17.5°	2347.2	2346.1	2334.6	2307.4	2280.2	2261.4	2265.6	2264.5	2256.2	2196.5	2119.1
20°	2476.9	2482.1	2471.6	2450.7	2414.1	2378.5	2376.4	2381.7	2371.2	2311.6	2203.9
22.5°	2622.2	2618.1	2607.6	2580.4	2553.2	2515.6	2503.0	2498.8	2494.6	2426.6	2290.7
25°	2760.3	2772.9	2759.3	2734.2	2692.3	2651.5	2641.1	2645.3	2633.8	2543.8	2383.8
27.5°	2935.0	2940.2	2931.9	2897.3	2861.8	2804.2	2784.4	2784.4	2780.2	2653.6	2457.0
30°	3121.2	3135.8	3121.2	3092.9	3056.3	2973.7	2930.8	2926.6	2914.1	2766.6	2542.8
32.5°	3308.4	3318.9	3308.4	3281.2	3239.4	3167.2	3105.5	3096.1	3079.3	2890.0	2630.6
35°	3474.7	3484.1	3482.0	3488.3	3453.8	3362.8	3325.1	3321.0	3277.0	3051.1	2749.9
37.5°	3656.7	3668.2	3652.5	3665.1	3651.5	3565.7	3554.2	3533.3	3470.5	3202.8	2875.4
40°	3863.8	3874.3	3849.2	3854.4	3838.7	3790.6	3732.0	3703.8	3610.7	3367.0	3073.1
42.5°	4085.6	4109.6	4121.1	4111.7	4075.1	4047.9	3945.4	3909.8	3832.4	3663.0	3398.4
45°	4406.7	4442.2	4459.0	4434.9	4419.2	4380.5	4255.0	4212.1	4171.3	4080.3	3852.3
47.5°	4752.9	4785.3	4838.7	4849.1	4861.7	4832.4	4655.6	4613.8	4621.1	4610.6	4410.9
50°	5029.0	5056.2	5176.5	5305.2	5411.8	5420.2	5194.3	5149.3	5189.1	5222.5	5083.4
52.5°	5229.8	5253.9	5412.9	5678.6	5920.2	6099.0	5855.3	5804.1	5836.5	5911.8	5848.0
55°	5393.0	5426.5	5592.8	6000.7	6489.2	6771.6	6615.8	6550.9	6537.3	6630.4	6667.0
57.5°	5478.8	5489.2	5722.5	6252.8	6906.5	7431.6	7499.6	7426.4	7296.7	7347.9	7538.3
60°	5283.2	5301.0	5620.0	6317.7	7236.0	8086.4	8427.4	8366.7	8090.6	8118.8	8329.1
62.5°	4742.4	4767.5	5151.4	6009.1	7263.2	8523.6	9284.0	9245.3	8875.1	8722.3	8785.1
65°	3804.2	3812.6	4210.0	5245.5	6722.4	8578.0	9881.3	9871.9	9423.1	9065.4	8796.6
67.5°	2169.3	2154.7	2686.1	3741.4	5547.8	7870.9	9920.0	9975.4	9601.0	9008.9	8064.4
70°	940.3	942.4	1187.2	1846.1	3590.8	6361.6	9213.9	9309.1	9086.3	8068.6	6416.0
72.5°	435.1	441.4	547.0	799.1	1533.4	3946.4	7513.2	7599.0	7407.6	6457.8	4668.2
75°	307.5	312.7	365.0	458.1	705.0	1537.6	5025.9	5205.8	5298.9	4830.3	3076.2
77.5°	233.3	240.6	266.7	318.0	435.1	545.0	2404.7	2833.5	3375.3	3005.1	1584.6
80°	148.5	148.5	176.8	212.3	265.7	283.5	694.5	823.2	1651.6	1238.4	622.4
82.5°	100.4	103.6	120.3	134.9	152.7	161.1	298.1	318.0	477.0	421.5	256.3
85°	53.3	55.4	62.8	61.7	73.2	63.8	125.5	124.5	174.7	191.4	97.3
87.5°	0.0	0.0	1.0	1.0	2.1	3.1	13.6	14.6	36.6	58.6	32.4
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°	1759.3	1759.3	1759.3	1759.3	1759.3	1759.3	1759.3	1759.3	1759.3	1759.3	1759.3
2.5°	1767.7	1755.1	1761.4	1759.3	1765.6	1765.6	1754.1	1751.0	1752.0	1739.4	1735.3
5°	1783.4	1768.7	1771.9	1767.7	1774.0	1779.2	1774.0	1774.0	1780.2	1770.8	1765.6
7.5°	1818.9	1802.2	1802.2	1797.0	1804.3	1808.5	1804.3	1810.6	1822.1	1812.7	1807.4
10°	1875.4	1855.6	1856.6	1850.3	1853.5	1851.4	1834.6	1829.4	1832.5	1824.2	1820.0
12.5°	1948.6	1921.4	1921.4	1908.9	1901.6	1879.6	1845.1	1832.5	1834.6	1827.3	1824.2
15°	2018.7	1993.6	1988.4	1963.3	1929.8	1889.0	1857.6	1849.3	1851.4	1844.0	1838.8
17.5°	2101.4	2068.9	2050.1	2004.1	1942.4	1900.5	1869.1	1849.3	1832.5	1815.8	1811.6
20°	2177.7	2136.9	2102.4	2031.3	1956.0	1898.4	1839.9	1790.7	1749.9	1727.9	1722.7
22.5°	2256.2	2203.9	2143.2	2050.1	1954.9	1860.8	1753.0	1678.8	1618.1	1585.7	1592.0
25°	2330.4	2264.5	2181.9	2067.9	1921.4	1777.1	1630.7	1519.8	1450.8	1425.7	1418.3
27.5°	2392.1	2310.5	2217.5	2059.5	1852.4	1656.8	1463.3	1339.9	1272.9	1244.7	1237.4
30°	2461.2	2369.1	2268.7	2020.8	1743.6	1488.4	1274.0	1173.6	1125.5	1098.3	1099.3
32.5°	2540.7	2444.4	2340.9	1946.5	1604.5	1306.4	1118.1	1049.1	1010.4	983.2	979.0
35°	2647.3	2552.2	2389.0	1834.6	1427.7	1139.1	1011.5	955.0	906.9	871.3	864.0
37.5°	2779.1	2714.3	2394.2	1685.1	1238.4	1024.0	935.1	874.4	815.9	768.8	763.6
40°	3005.1	2930.8	2351.3	1497.8	1077.3	949.7	871.3	801.2	733.2	680.9	673.6
42.5°	3327.2	3174.5	2259.3	1286.5	956.0	891.2	810.6	721.7	652.7	616.1	610.8
45°	3737.2	3446.5	2121.2	1087.8	866.1	833.6	746.8	653.7	617.1	591.0	585.7
47.5°	4239.3	3763.4	1962.2	933.0	796.0	781.3	682.0	630.7	598.3	576.3	571.1
50°	4839.7	4167.1	1831.5	811.7	733.2	720.7	661.1	617.1	591.0	573.2	569.0
52.5°	5524.8	4615.9	1767.7	724.9	678.8	666.3	653.7	614.0	592.0	578.4	573.2
55°	6236.1	5088.6	1708.1	657.9	632.8	640.1	654.8	624.4	607.7	589.9	584.7
57.5°	6923.3	5532.1	1561.6	605.6	599.3	627.6	660.0	634.9	615.0	597.2	591.0
60°	7397.1	5774.8	1313.7	563.8	574.2	611.9	646.4	619.2	594.1	586.8	583.7
62.5°	7524.7	5745.5	1019.8	520.9	543.9	577.4	610.8	593.1	566.9	578.4	579.5
65°	7226.6	5431.7	765.6	479.1	504.2	532.4	574.2	566.9	557.5	588.9	589.9
67.5°	6382.5	4660.8	583.7	442.4	463.4	497.9	562.7	593.1	595.2	634.9	630.7
70°	4829.2	3482.0	457.1	407.9	432.0	497.9	599.3	612.9	587.8	624.4	616.1
72.5°	3338.7	2298.0	389.1	377.6	393.3	474.9	598.3	598.3	571.1	571.1	555.4
75°	2074.2	1351.4	338.9	338.9	338.9	415.2	581.6	551.2	503.1	481.1	468.6
77.5°	1024.0	656.9	284.5	295.0	283.5	347.3	474.9	450.8	421.5	398.5	390.1
80°	437.2	328.4	230.1	241.6	228.0	261.5	376.5	371.3	343.1	312.7	303.3
82.5°	200.8	169.4	184.1	189.3	166.3	196.6	275.1	275.1	259.4	217.6	201.9
85°	85.8	90.0	127.6	127.6	104.6	110.9	147.5	140.2	125.5	102.5	94.1
87.5°	29.3	43.9	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)