

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: P633604

Luminaire Tested: GWS-SA2F-722-U-T3-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633604
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-SA2F-722-U-T3-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: (32) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11957.6 lumens
Efficiency: N/A
Efficacy: 96.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

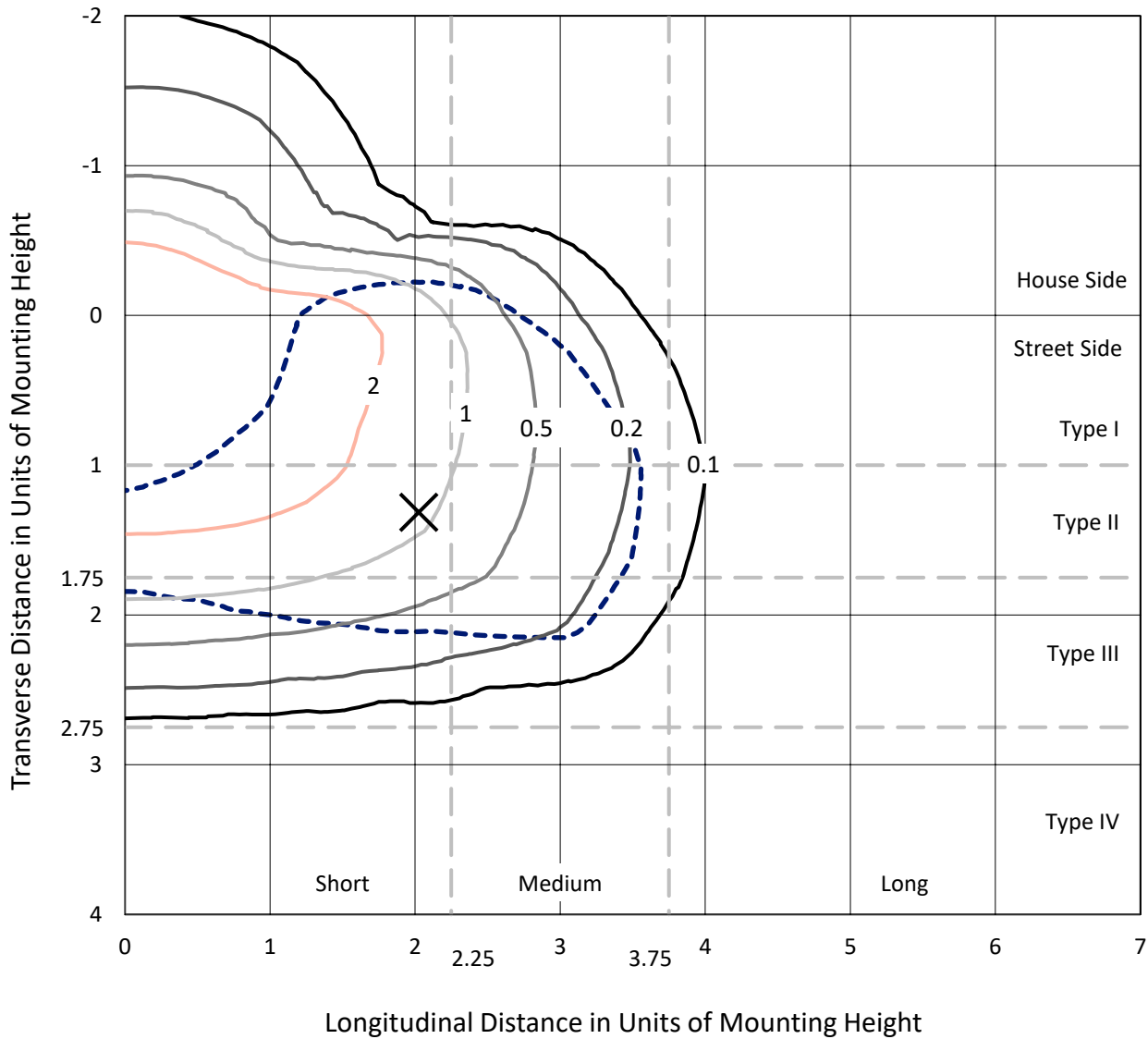
Input Watts (W): 124.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

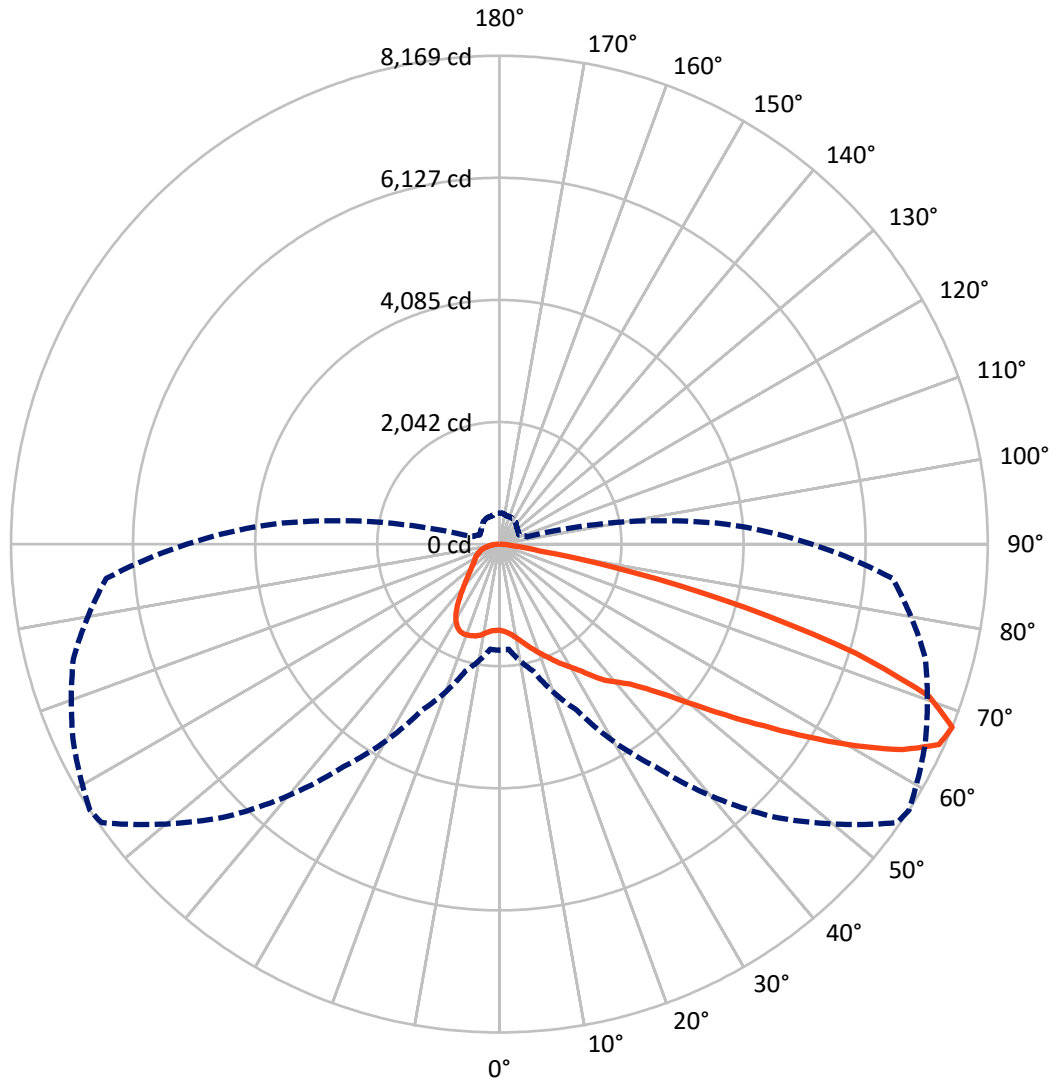
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.2 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	2629.0	0.0	2629.0
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	9328.6	0.0	9328.6
	% Fixture	78.0	0.0	78.0
Total	Lumens	11957.6	0.0	11957.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.9	1.2
10°-20°	473.1	4.0
20°-30°	843.4	7.1
30°-40°	1226.2	10.3
40°-50°	1774.7	14.8
50°-60°	2777.3	23.2
60°-70°	3239.9	27.1
70°-80°	1352.5	11.3
80°-90°	127.6	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°	11957.6	100.0
0°-180°	11957.6	100.0

Coefficient of Utilization



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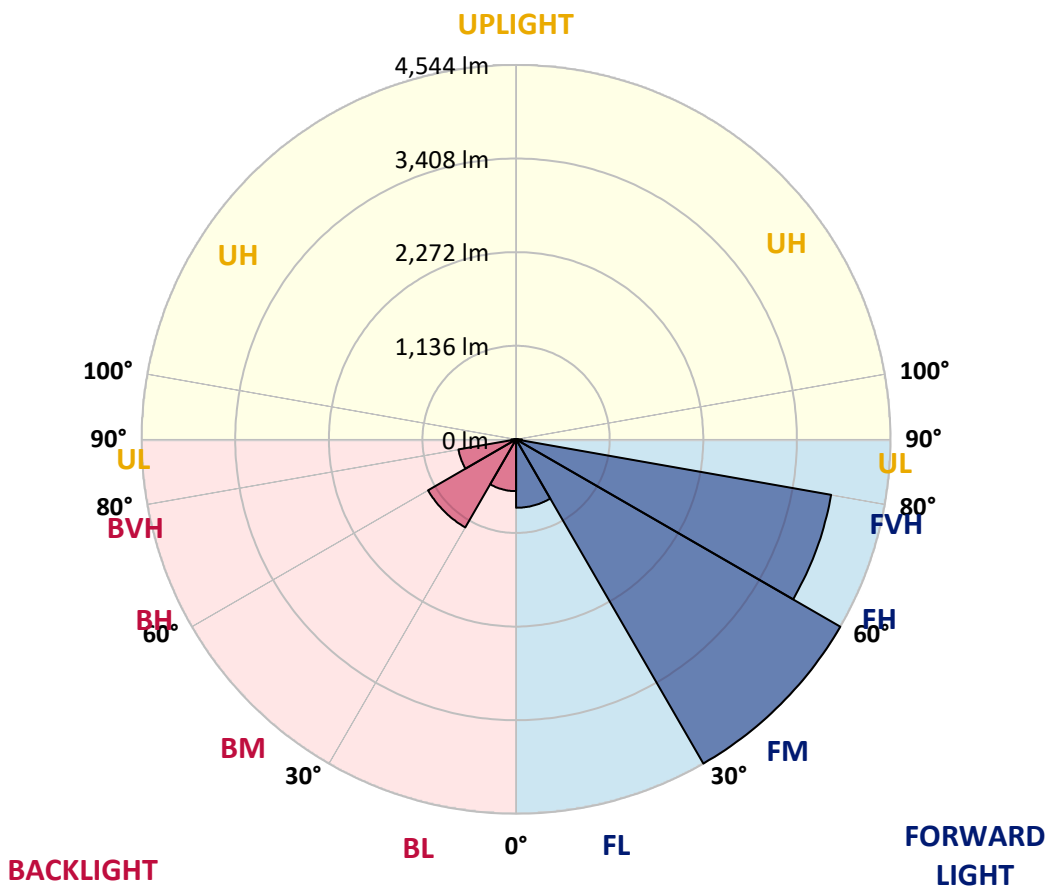
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	830.6	6.9			
FM (30°-60°)	4544.1	38.0			
FH (60°-80°)	3882.8	32.5			G2/5000
FVH (80°-90°)	71.1	0.6			G1/100
BL (0°-30°)	628.8	5.3	B2/1000		
BM (30°-60°)	1234.1	10.3	B2/2500		
BH (60°-80°)	709.6	5.9	B2/1000		G2/1000
BVH (80°-90°)	56.5	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°	1440.8	1440.8	1440.8	1440.8	1440.8	1440.8	1440.8	1440.8	1440.8	1440.8	1440.8
2.5°	1461.4	1459.7	1458.8	1463.9	1462.2	1461.4	1461.4	1460.5	1458.8	1451.9	1442.5
5°	1501.6	1498.2	1494.8	1499.1	1495.6	1492.2	1491.3	1489.6	1483.6	1473.4	1458.8
7.5°	1543.6	1540.2	1541.0	1543.6	1541.0	1539.3	1536.7	1535.0	1525.6	1509.3	1489.6
10°	1602.7	1602.7	1604.4	1607.0	1607.8	1605.3	1600.1	1597.6	1586.4	1565.9	1538.5
12.5°	1688.4	1686.7	1686.7	1684.9	1687.5	1684.9	1679.8	1675.5	1661.8	1635.3	1595.9
15°	1801.4	1794.6	1788.6	1777.5	1774.0	1764.6	1766.3	1763.7	1750.9	1714.9	1665.2
17.5°	1922.2	1921.4	1911.9	1889.7	1867.4	1852.0	1855.4	1854.5	1847.7	1798.9	1735.5
20°	2028.4	2032.7	2024.2	2007.0	1977.0	1947.9	1946.2	1950.5	1941.9	1893.1	1804.9
22.5°	2147.5	2144.1	2135.5	2113.2	2091.0	2060.1	2049.9	2046.4	2043.0	1987.3	1876.0
25°	2260.6	2270.9	2259.7	2239.2	2204.9	2171.5	2162.9	2166.4	2156.9	2083.3	1952.2
27.5°	2403.6	2407.9	2401.1	2372.8	2343.7	2296.6	2280.3	2280.3	2276.9	2173.2	2012.2
30°	2556.1	2568.1	2556.1	2533.0	2503.0	2435.3	2400.2	2396.8	2386.5	2265.7	2082.4
32.5°	2709.4	2718.0	2709.4	2687.2	2652.9	2593.8	2543.3	2535.6	2521.8	2366.8	2154.4
35°	2845.6	2853.4	2851.6	2856.8	2828.5	2754.0	2723.1	2719.7	2683.7	2498.7	2252.0
37.5°	2994.7	3004.1	2991.3	3001.5	2990.4	2920.2	2910.7	2893.6	2842.2	2622.9	2354.8
40°	3164.3	3172.9	3152.3	3156.6	3143.7	3104.3	3056.4	3033.2	2957.0	2757.4	2516.7
42.5°	3345.9	3365.6	3375.0	3367.3	3337.3	3315.1	3231.1	3202.0	3138.6	2999.8	2783.1
45°	3608.9	3638.0	3651.7	3632.0	3619.2	3587.5	3484.7	3449.5	3416.1	3341.6	3154.9
47.5°	3892.4	3919.0	3962.7	3971.2	3981.5	3957.5	3812.7	3778.5	3784.5	3775.9	3612.3
50°	4118.6	4140.8	4239.3	4344.7	4432.1	4438.9	4253.9	4217.1	4249.6	4277.0	4163.1
52.5°	4283.0	4302.7	4432.9	4650.5	4848.4	4994.9	4795.3	4753.3	4779.9	4841.5	4789.3
55°	4416.7	4444.1	4580.3	4914.3	5314.4	5545.7	5418.0	5364.9	5353.8	5430.0	5460.0
57.5°	4486.9	4495.5	4686.5	5120.8	5656.2	6086.2	6141.9	6081.9	5975.7	6017.6	6173.6
60°	4326.7	4341.3	4602.5	5173.9	5926.0	6622.4	6901.7	6852.0	6625.8	6649.0	6821.1
62.5°	3883.8	3904.4	4218.8	4921.2	5948.3	6980.5	7603.2	7571.5	7268.3	7143.2	7194.6
65°	3115.5	3122.3	3447.8	4295.9	5505.4	7025.0	8092.3	8084.6	7717.2	7424.2	7204.0
67.5°	1776.6	1764.6	2199.8	3064.1	4543.4	6446.0	8124.0	8169.4	7862.8	7377.9	6604.4
70°	770.1	771.8	972.2	1511.9	2940.7	5209.9	7545.8	7623.8	7441.3	6607.8	5254.4
72.5°	356.3	361.5	448.0	654.4	1255.8	3232.0	6153.0	6223.2	6066.5	5288.7	3823.0
75°	251.8	256.1	299.0	375.2	577.4	1259.2	4116.0	4263.3	4339.6	3955.8	2519.3
77.5°	191.0	197.0	218.4	260.4	356.3	446.3	1969.3	2320.5	2764.3	2461.0	1297.8
80°	121.6	121.6	144.8	173.9	217.6	232.1	568.8	674.1	1352.6	1014.2	509.7
82.5°	82.2	84.8	98.5	110.5	125.1	131.9	244.1	260.4	390.6	345.2	209.9
85°	43.7	45.4	51.4	50.5	60.0	52.3	102.8	101.9	143.1	156.8	79.7
87.5°	0.0	0.0	0.9	0.9	1.7	2.6	11.1	12.0	30.0	48.0	26.6
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°	1440.8	1440.8	1440.8	1440.8	1440.8	1440.8	1440.8	1440.8	1440.8	1440.8	1440.8
2.5°	1447.7	1437.4	1442.5	1440.8	1445.9	1445.9	1436.5	1434.0	1434.8	1424.5	1421.1
5°	1460.5	1448.5	1451.1	1447.7	1452.8	1457.1	1452.8	1452.8	1457.9	1450.2	1445.9
7.5°	1489.6	1475.9	1475.9	1471.6	1477.6	1481.1	1477.6	1482.8	1492.2	1484.5	1480.2
10°	1535.9	1519.6	1520.5	1515.3	1517.9	1516.2	1502.5	1498.2	1500.8	1493.9	1490.5
12.5°	1595.9	1573.6	1573.6	1563.3	1557.3	1539.3	1511.1	1500.8	1502.5	1496.5	1493.9
15°	1653.2	1632.7	1628.4	1607.8	1580.4	1547.0	1521.3	1514.5	1516.2	1510.2	1505.9
17.5°	1720.9	1694.4	1678.9	1641.3	1590.7	1556.5	1530.8	1514.5	1500.8	1487.1	1483.6
20°	1783.5	1750.0	1721.8	1663.5	1601.9	1554.7	1506.8	1466.5	1433.1	1415.1	1410.8
22.5°	1847.7	1804.9	1755.2	1678.9	1601.0	1523.9	1435.7	1374.9	1325.2	1298.6	1303.8
25°	1908.5	1854.5	1786.9	1693.5	1573.6	1455.4	1335.4	1244.6	1188.1	1167.6	1161.6
27.5°	1959.1	1892.2	1816.0	1686.7	1517.0	1356.9	1198.4	1097.3	1042.5	1019.4	1013.4
30°	2015.6	1940.2	1858.0	1655.0	1428.0	1218.9	1043.3	961.1	921.7	899.4	900.3
32.5°	2080.7	2001.9	1917.1	1594.1	1314.0	1069.9	915.7	859.2	827.5	805.2	801.8
35°	2168.1	2090.1	1956.5	1502.5	1169.3	932.8	828.3	782.1	742.7	713.6	707.6
37.5°	2276.0	2222.9	1960.8	1380.0	1014.2	838.6	765.8	716.1	668.2	629.6	625.3
40°	2461.0	2400.2	1925.6	1226.7	882.3	777.8	713.6	656.2	600.5	557.6	551.7
42.5°	2724.9	2599.8	1850.3	1053.6	782.9	729.8	663.9	591.1	534.5	504.5	500.3
45°	3060.6	2822.5	1737.2	890.9	709.3	682.7	611.6	535.4	505.4	484.0	479.7
47.5°	3471.8	3082.1	1607.0	764.1	651.9	639.9	558.5	516.5	490.0	472.0	467.7
50°	3963.5	3412.7	1499.9	664.7	600.5	590.2	541.4	505.4	484.0	469.4	466.0
52.5°	4524.6	3780.2	1447.7	593.6	555.9	545.7	535.4	502.8	484.8	473.7	469.4
55°	5107.1	4167.4	1398.8	538.8	518.2	524.2	536.2	511.4	497.7	483.1	478.8
57.5°	5669.9	4530.6	1278.9	496.0	490.8	514.0	540.5	520.0	503.7	489.1	484.0
60°	6057.9	4729.3	1075.9	461.7	470.3	501.1	529.4	507.1	486.6	480.6	478.0
62.5°	6162.4	4705.3	835.2	426.6	445.4	472.8	500.3	485.7	464.3	473.7	474.6
65°	5918.3	4448.3	627.0	392.3	412.9	436.0	470.3	464.3	456.6	482.3	483.1
67.5°	5227.0	3817.0	478.0	362.3	379.5	407.7	460.9	485.7	487.4	520.0	516.5
70°	3954.9	2851.6	374.3	334.1	353.8	407.7	490.8	502.0	481.4	511.4	504.5
72.5°	2734.3	1882.0	318.7	309.2	322.1	388.9	490.0	490.0	467.7	467.7	454.9
75°	1698.6	1106.7	277.5	277.5	277.5	340.1	476.3	451.4	412.0	394.0	383.8
77.5°	838.6	537.9	233.0	241.6	232.1	284.4	388.9	369.2	345.2	326.4	319.5
80°	358.1	269.0	188.5	197.9	186.7	214.2	308.4	304.1	281.0	256.1	248.4
82.5°	164.5	138.8	150.8	155.0	136.2	161.0	225.3	225.3	212.4	178.2	165.3
85°	70.2	73.7	104.5	104.5	85.7	90.8	120.8	114.8	102.8	83.9	77.1
87.5°	24.0	36.0	53.1	46.3	18.0	7.7	4.3	1.7	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)