

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: P635498

Luminaire Tested: GWS-SA3D-830-U-RW-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P635498
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-SA3D-830-U-RW-W
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: (48) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14391.2 lumens
Efficiency: N/A
Efficacy: 119.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G4

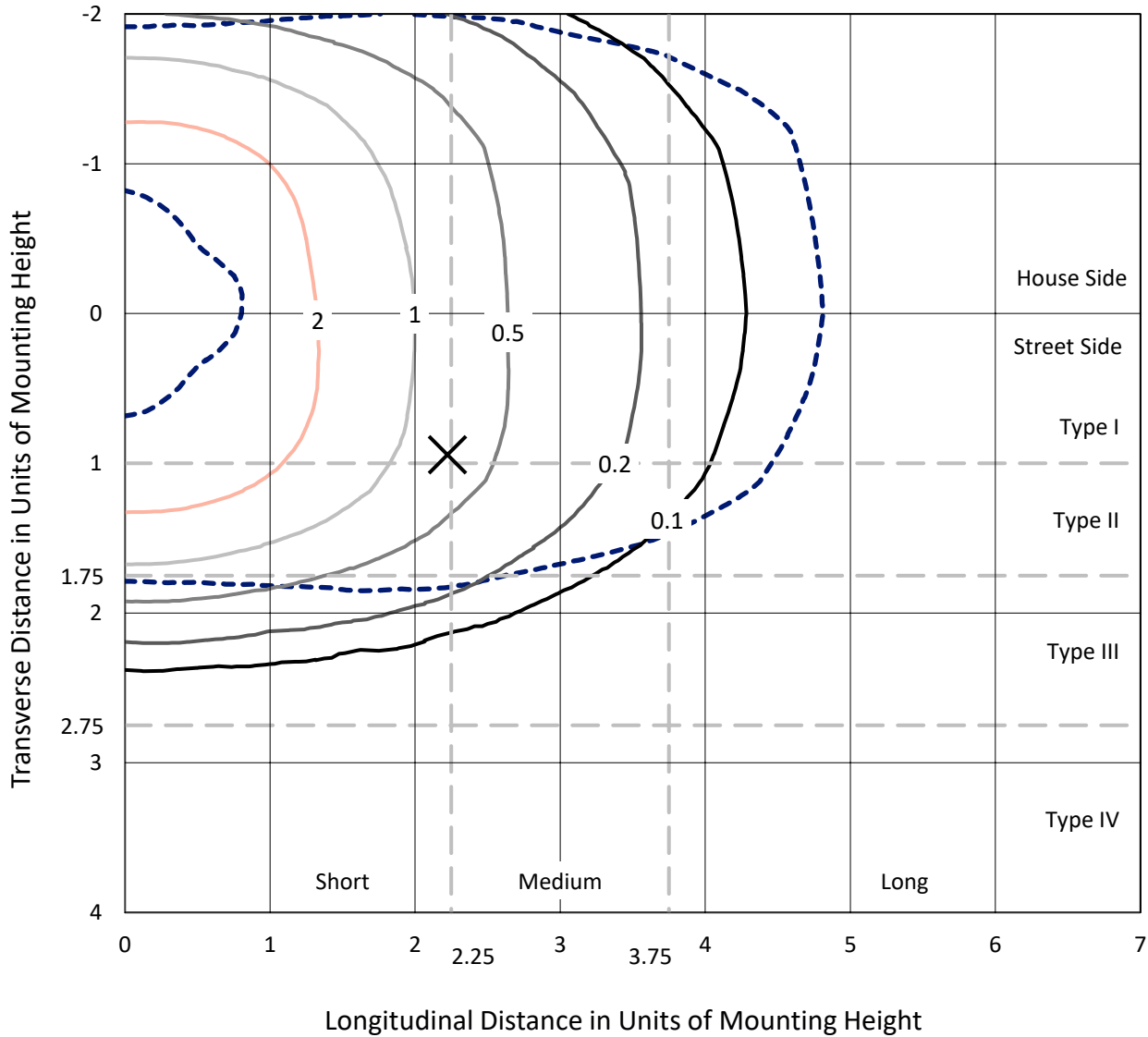
Input Watts (W): 120.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P635498
 CATALOG NUMBER: GWS-SA3D-830-U-RW-W

Iso-Footcandle Lines of Horizontal Illumination

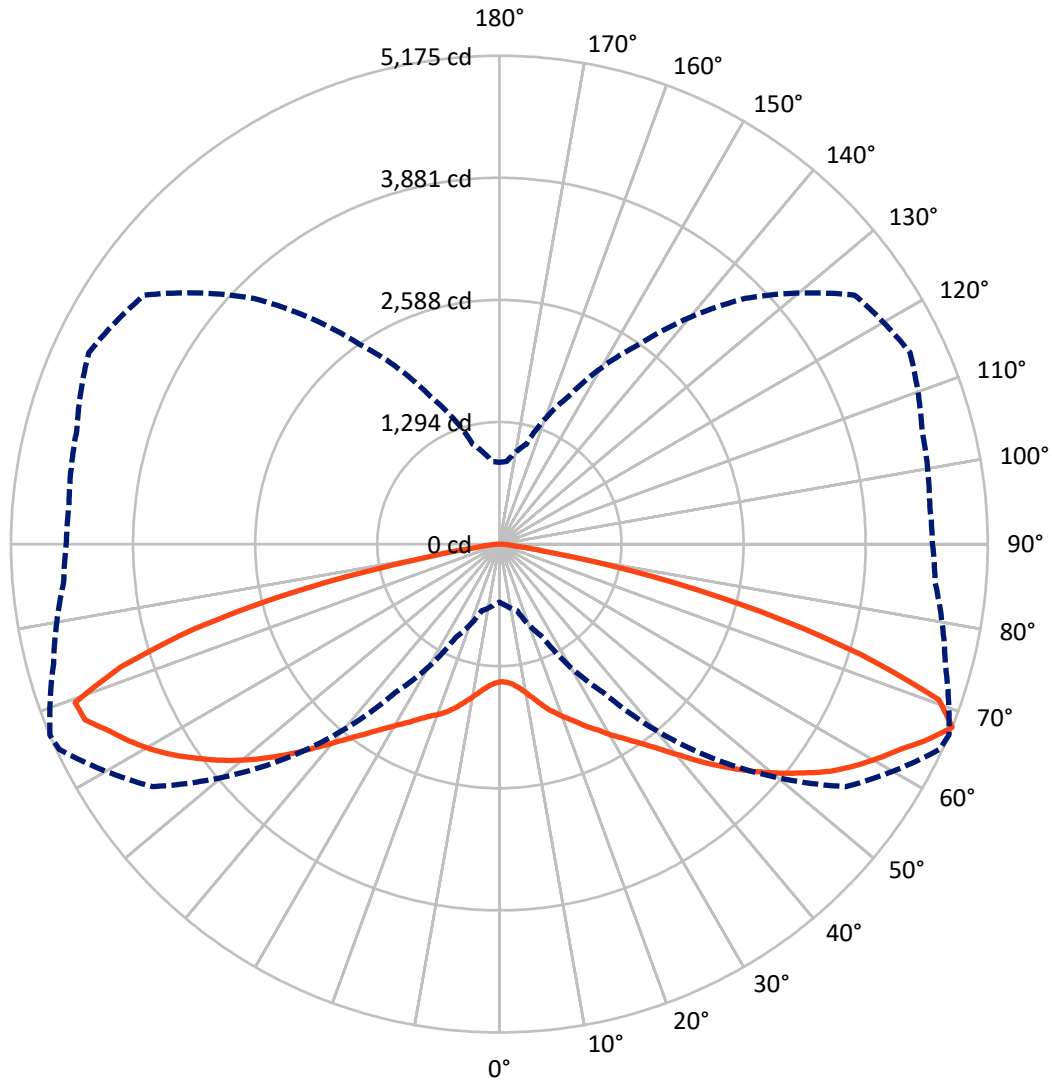
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.2 fc
 Type III - Short - N/A

REPORT NUMBER: P635498
CATALOG NUMBER: GWS-SA3D-830-U-RW-W

Luminous Intensity Polar Plot



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

REPORT NUMBER: P635498

CATALOG NUMBER: GWS-SA3D-830-U-RW-W

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7116.2	0.0	7116.2
	% Fixture	49.4	0.0	49.4
Street Side	Lumens	7275.0	0.0	7275.0
	% Fixture	50.6	0.0	50.6
Total	Lumens	14391.2	0.0	14391.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.0	1.0
10°-20°	483.0	3.4
20°-30°	947.6	6.6
30°-40°	1614.5	11.2
40°-50°	2592.5	18.0
50°-60°	3522.7	24.5
60°-70°	3369.7	23.4
70°-80°	1602.1	11.1
80°-90°	116.1	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°	14391.2	100.0
0°-180°	14391.2	100.0

Coefficient of Utilization



REPORT NUMBER: P635498

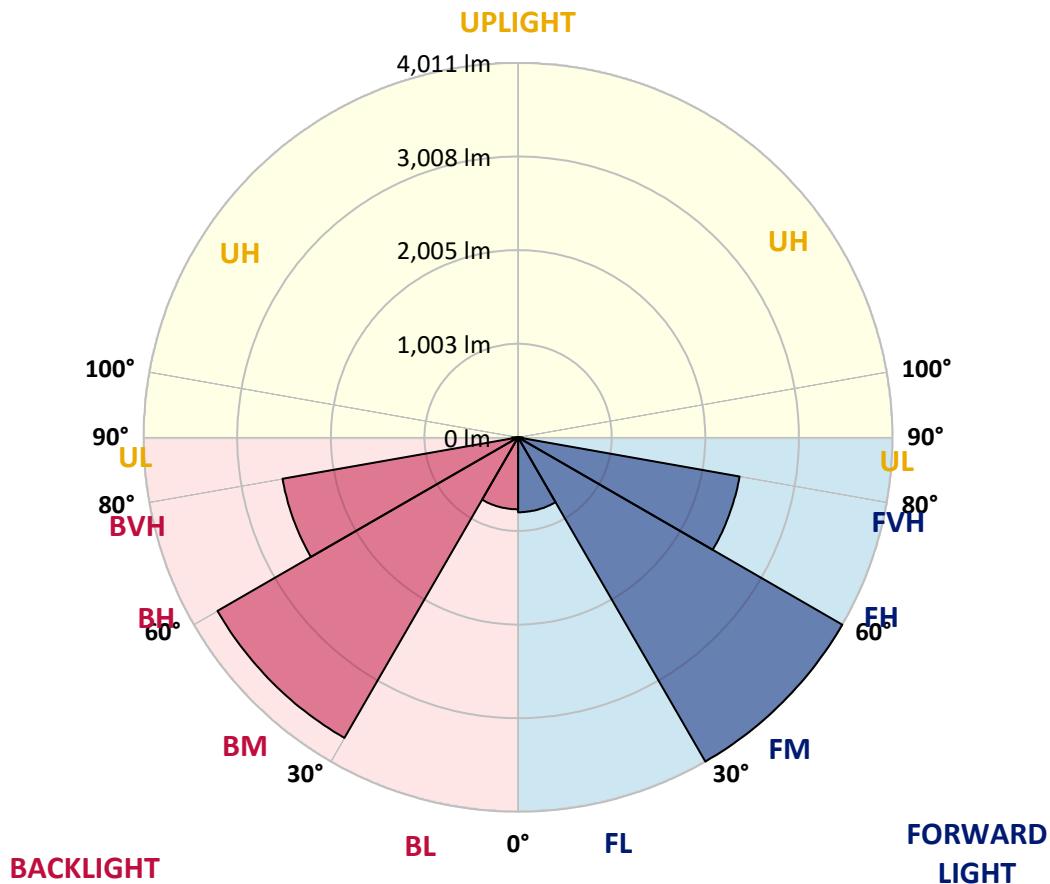
CATALOG NUMBER: GWS-SA3D-830-U-RW-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	802.4	5.6			
FM (30°-60°)	4011.0	27.9			
FH (60°-80°)	2409.5	16.7			G2/5000
FVH (80°-90°)	52.2	0.4			G1/100
BL (0°-30°)	771.2	5.4	B2/1000		
BM (30°-60°)	3718.8	25.8	B3/5000		
BH (60°-80°)	2562.3	17.8	B4/5000		G4/5000
BVH (80°-90°)	63.9	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





REPORT NUMBER: P635498
 CATALOG NUMBER: GWS-SA3D-830-U-RW-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1457.2	1457.2	1457.2	1457.2	1457.2	1457.2	1457.2	1457.2	1457.2	1457.2	1457.2
2.5°	1427.1	1429.1	1432.1	1438.1	1444.2	1453.2	1462.2	1461.2	1465.2	1468.2	1471.2
5°	1419.1	1421.1	1426.1	1434.1	1443.2	1458.2	1477.2	1485.3	1491.3	1502.3	1512.3
7.5°	1436.1	1440.2	1447.2	1458.2	1472.2	1491.3	1517.3	1531.4	1540.4	1560.4	1577.5
10°	1459.2	1464.2	1478.2	1499.3	1520.3	1549.4	1582.5	1603.5	1609.5	1635.6	1667.6
12.5°	1481.2	1487.3	1510.3	1548.4	1586.5	1625.6	1664.6	1690.7	1692.7	1727.8	1763.9
15°	1516.3	1521.3	1552.4	1601.5	1659.6	1713.8	1761.9	1779.9	1787.9	1813.0	1858.1
17.5°	1593.5	1599.5	1639.6	1692.7	1753.8	1811.0	1859.1	1874.1	1874.1	1895.1	1932.2
20°	1676.7	1682.7	1735.8	1803.9	1878.1	1936.2	1973.3	1959.3	1954.3	1960.3	1986.3
22.5°	1769.9	1780.9	1832.0	1911.2	2002.4	2073.5	2092.6	2050.5	2036.5	2022.4	2028.4
25°	1889.1	1902.2	1952.3	2036.5	2125.7	2200.8	2211.8	2146.7	2138.7	2089.6	2071.5
27.5°	2026.4	2036.5	2098.6	2181.8	2265.0	2328.1	2340.1	2259.9	2232.9	2164.7	2122.6
30°	2203.8	2212.8	2267.0	2349.1	2421.3	2465.4	2480.4	2370.2	2349.1	2244.9	2179.8
32.5°	2397.2	2401.3	2456.4	2535.5	2599.7	2641.8	2620.7	2492.5	2461.4	2344.1	2254.9
35°	2618.7	2618.7	2689.9	2754.0	2805.1	2817.2	2777.1	2630.8	2594.7	2467.4	2356.2
37.5°	2836.2	2842.2	2908.4	2984.5	3029.6	3027.6	2954.5	2794.1	2753.0	2614.7	2491.5
40°	3071.7	3084.8	3150.9	3236.1	3279.2	3273.2	3160.9	2982.5	2940.4	2777.1	2656.8
42.5°	3288.2	3309.2	3386.4	3473.6	3520.7	3516.7	3399.4	3199.0	3157.9	2973.5	2853.2
45°	3460.6	3482.6	3578.8	3700.1	3775.3	3768.2	3650.0	3423.5	3373.4	3180.0	3047.7
47.5°	3611.9	3635.0	3742.2	3870.5	3989.7	4001.8	3893.5	3650.0	3596.9	3401.4	3252.1
50°	3728.2	3739.2	3859.4	3999.8	4138.1	4205.2	4111.0	3877.5	3813.3	3619.9	3451.6
52.5°	3719.1	3734.2	3882.5	4072.9	4258.3	4368.6	4303.4	4092.0	4029.8	3819.4	3655.0
55°	3535.7	3550.8	3727.2	4004.8	4325.5	4487.8	4480.8	4296.4	4251.3	4022.8	3866.5
57.5°	3268.2	3301.2	3476.6	3776.3	4237.3	4583.0	4611.1	4482.8	4435.7	4222.2	4075.9
60°	2789.1	2833.2	3035.6	3424.5	3954.7	4551.0	4750.4	4640.2	4611.1	4407.6	4265.3
62.5°	2026.4	2058.5	2328.1	2838.2	3535.7	4322.5	4867.7	4802.5	4780.5	4574.0	4436.7
65°	1213.7	1286.8	1503.3	2007.4	2852.2	3891.5	4803.5	5015.0	4991.9	4745.4	4583.0
67.5°	614.3	647.4	732.6	1088.4	1918.2	3220.0	4481.8	5147.3	5175.3	4891.7	4635.1
70°	380.8	389.9	413.9	537.2	958.1	2115.6	3665.0	4802.5	4939.8	4868.7	4499.8
72.5°	305.7	307.7	311.7	334.7	460.0	989.2	2317.1	3761.2	4008.8	4547.0	4306.4
75°	253.6	254.6	255.6	262.6	286.6	403.9	1127.5	2584.7	2874.3	3864.5	3992.7
77.5°	203.4	198.4	202.4	205.4	211.5	225.5	388.9	1379.0	1672.7	2536.6	3087.8
80°	132.3	130.3	138.3	141.3	147.3	156.3	207.5	468.0	568.2	923.0	982.1
82.5°	71.2	67.1	84.2	81.2	84.2	91.2	122.3	171.4	192.4	278.6	235.5
85°	22.0	22.0	23.1	27.1	33.1	32.1	53.1	84.2	93.2	119.3	88.2
87.5°	4.0	4.0	4.0	4.0	4.0	5.0	11.0	17.0	23.1	41.1	31.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P635498
 CATALOG NUMBER: GWS-SA3D-830-U-RW-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1457.2	1457.2	1457.2	1457.2	1457.2	1457.2	1457.2	1457.2	1457.2	1457.2	1457.2
2.5°	1477.2	1468.2	1473.2	1476.2	1475.2	1473.2	1463.2	1461.2	1456.2	1448.2	1446.2
5°	1521.3	1511.3	1512.3	1509.3	1499.3	1486.3	1464.2	1453.2	1444.2	1434.1	1433.1
7.5°	1590.5	1579.5	1576.5	1562.4	1534.4	1504.3	1469.2	1449.2	1434.1	1421.1	1419.1
10°	1678.7	1667.6	1657.6	1624.6	1578.5	1538.4	1492.3	1463.2	1441.2	1425.1	1422.1
12.5°	1776.9	1767.9	1742.8	1694.7	1639.6	1592.5	1545.4	1509.3	1477.2	1453.2	1450.2
15°	1886.1	1866.1	1828.0	1765.9	1713.8	1675.7	1618.5	1569.4	1518.3	1486.3	1479.2
17.5°	1962.3	1945.3	1900.2	1840.0	1798.9	1765.9	1698.7	1628.6	1559.4	1512.3	1502.3
20°	2016.4	1998.4	1947.3	1903.2	1890.1	1862.1	1783.9	1702.7	1622.6	1564.4	1551.4
22.5°	2055.5	2036.5	1984.3	1962.3	1980.3	1975.3	1899.2	1807.0	1711.7	1642.6	1626.6
25°	2092.6	2074.5	2028.4	2036.5	2084.6	2099.6	2017.4	1910.2	1801.9	1720.8	1701.7
27.5°	2127.7	2104.6	2083.6	2127.7	2195.8	2223.9	2136.7	2015.4	1898.2	1815.0	1799.9
30°	2181.8	2154.7	2151.7	2215.8	2324.1	2348.1	2251.9	2130.7	2014.4	1930.2	1911.2
32.5°	2249.9	2224.9	2226.9	2323.1	2448.4	2468.4	2386.2	2273.0	2156.7	2072.5	2046.5
35°	2342.1	2311.1	2328.1	2446.4	2572.6	2609.7	2543.6	2449.4	2336.1	2249.9	2220.9
37.5°	2469.4	2424.3	2459.4	2583.7	2710.9	2766.1	2714.9	2644.8	2532.5	2445.4	2418.3
40°	2631.8	2594.7	2608.7	2746.0	2877.3	2943.4	2911.4	2842.2	2731.0	2639.8	2608.7
42.5°	2824.2	2787.1	2782.1	2928.4	3059.7	3159.9	3128.8	3065.7	2950.5	2846.2	2816.2
45°	3012.6	2978.5	2985.5	3134.9	3282.2	3391.4	3360.4	3286.2	3160.9	3040.7	3016.6
47.5°	3209.0	3181.0	3187.0	3345.3	3507.7	3616.9	3577.8	3487.6	3341.3	3213.0	3184.0
50°	3410.5	3378.4	3387.4	3553.8	3729.2	3832.4	3772.3	3639.0	3477.6	3352.3	3327.3
52.5°	3610.9	3572.8	3595.9	3753.2	3934.6	4016.8	3905.5	3744.2	3587.9	3463.6	3435.5
55°	3841.4	3801.3	3776.3	3944.6	4124.0	4158.1	4005.8	3817.4	3631.9	3490.6	3473.6
57.5°	4051.9	4017.8	3970.7	4139.1	4271.3	4246.3	4082.9	3797.3	3524.7	3343.3	3319.3
60°	4240.3	4211.2	4170.1	4313.4	4373.6	4317.4	4020.8	3559.8	3260.1	3070.7	3059.7
62.5°	4413.7	4382.6	4344.5	4466.8	4458.8	4328.5	3738.2	3195.0	2794.1	2590.7	2572.6
65°	4551.0	4522.9	4511.9	4608.1	4595.1	4113.0	3298.2	2597.7	2041.5	1812.0	1805.0
67.5°	4590.0	4579.0	4638.2	4801.5	4598.1	3680.1	2586.7	1722.8	1096.4	878.9	865.9
70°	4443.7	4442.7	4612.1	4845.6	4181.2	2811.2	1526.3	776.7	551.2	489.1	481.1
72.5°	4253.3	4250.3	4384.6	4180.1	3100.8	1538.4	642.4	415.9	344.8	327.7	327.7
75°	3940.6	3932.6	4033.8	3180.0	1743.8	579.3	340.7	285.6	270.6	267.6	267.6
77.5°	3212.0	3144.9	2985.5	1965.3	608.3	284.6	225.5	224.5	215.5	214.5	214.5
80°	1056.3	1056.3	1227.7	749.6	268.6	175.4	159.3	167.4	158.3	152.3	151.3
82.5°	172.4	237.5	337.7	214.5	145.3	109.2	98.2	104.2	109.2	87.2	87.2
85°	68.1	89.2	130.3	100.2	67.1	44.1	47.1	52.1	46.1	40.1	39.1
87.5°	26.1	32.1	46.1	24.1	14.0	8.0	5.0	5.0	4.0	4.0	4.0
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)