

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: P633298

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

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633298
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-SA2E-740-U-RW-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15020.4 lumens
Efficiency: N/A
Efficacy: 138.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G4

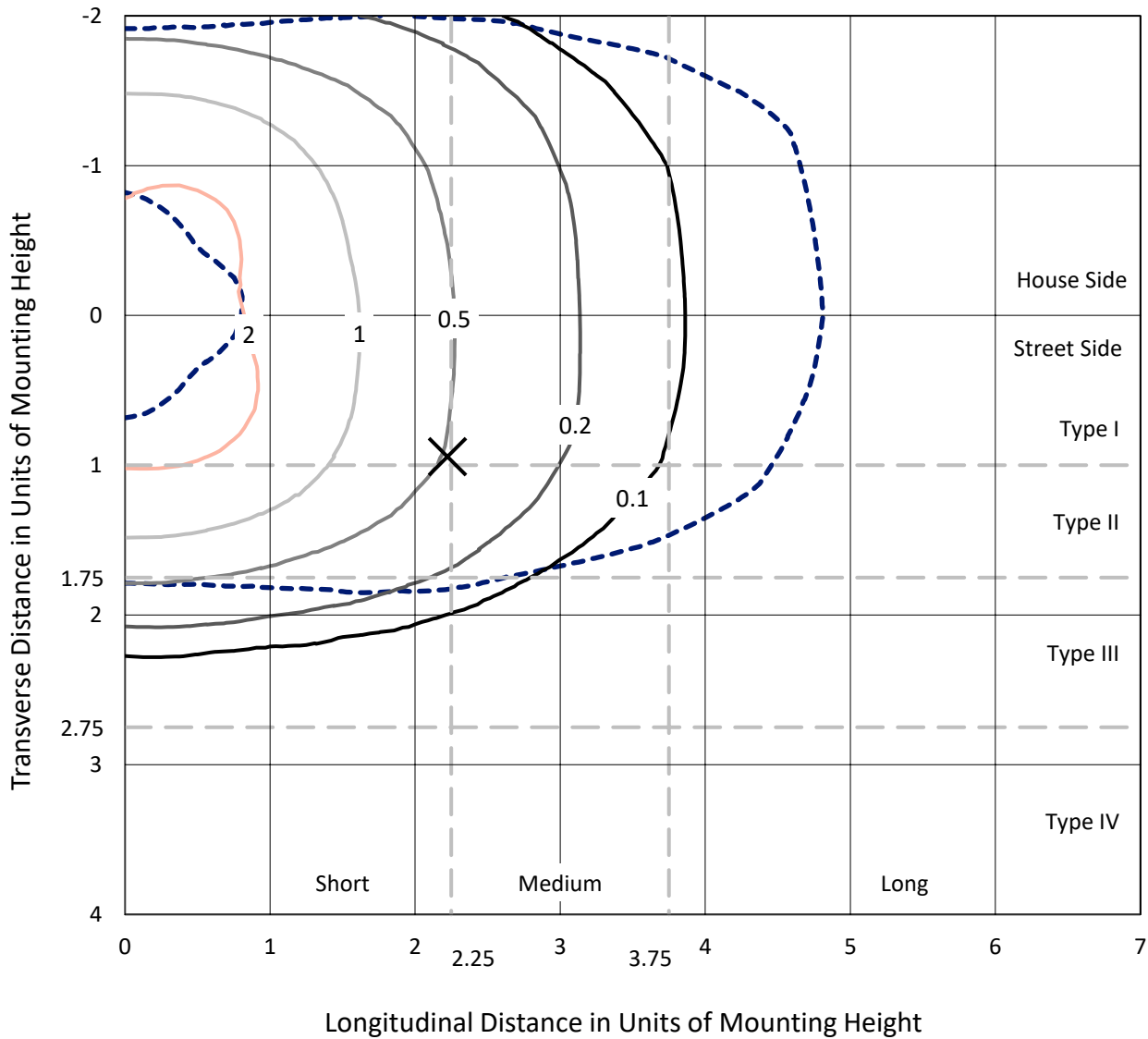
Input Watts (W): 108.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

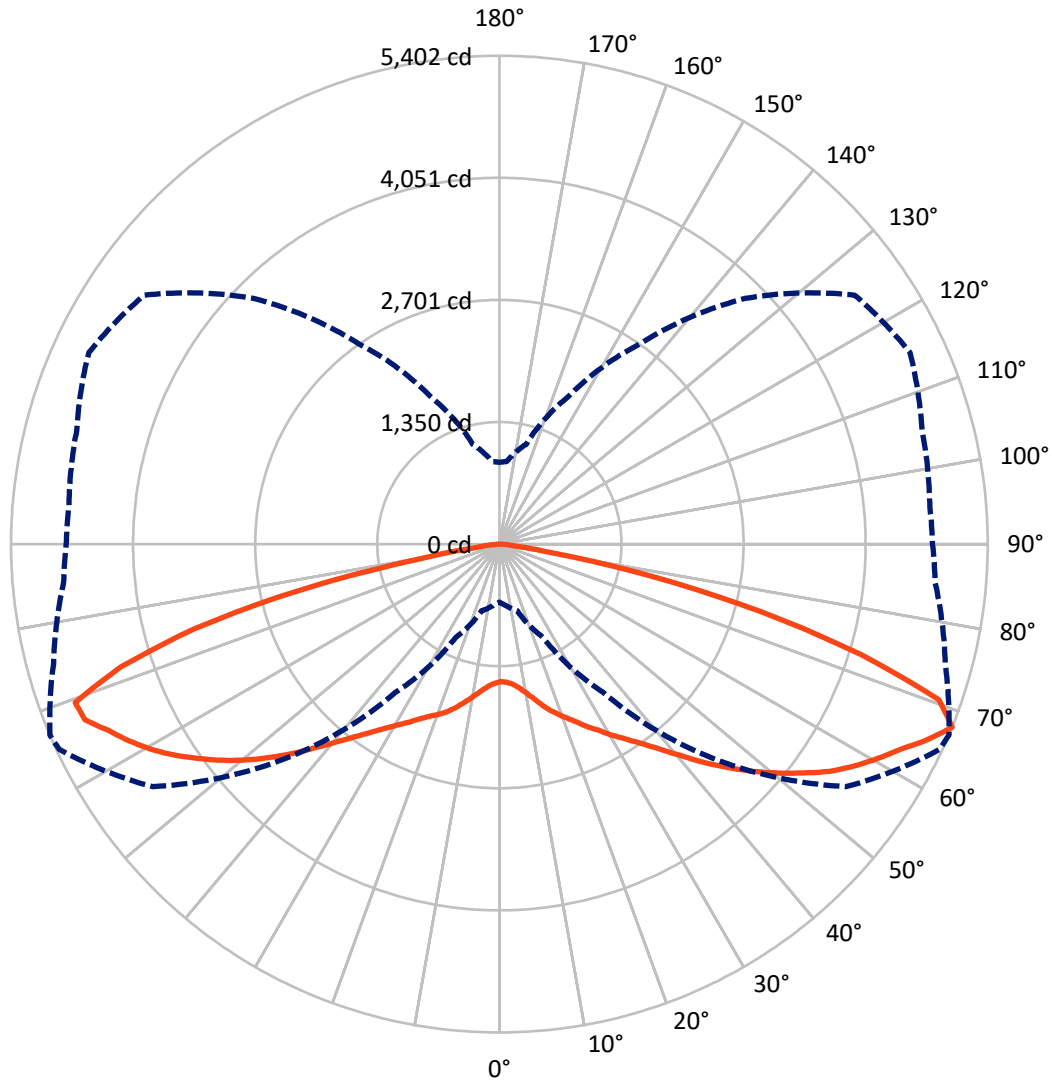
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 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	7427.3	0.0	7427.3
	% Fixture	49.4	0.0	49.4
Street Side	Lumens	7593.1	0.0	7593.1
	% Fixture	50.6	0.0	50.6
Total	Lumens	15020.4	0.0	15020.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.2	1.0
10°-20°	504.1	3.4
20°-30°	989.1	6.6
30°-40°	1685.1	11.2
40°-50°	2705.9	18.0
50°-60°	3676.7	24.5
60°-70°	3517.0	23.4
70°-80°	1672.1	11.1
80°-90°	121.2	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°	15020.4	100.0
0°-180°	15020.4	100.0

Coefficient of Utilization



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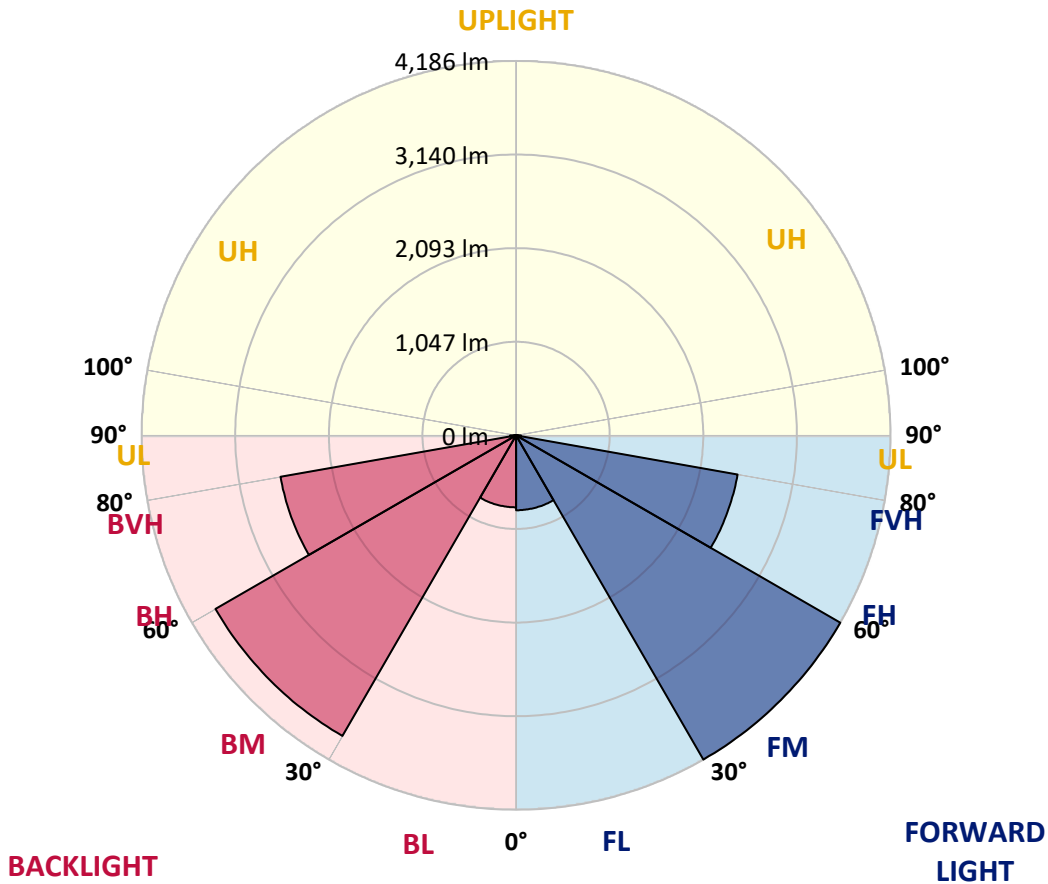
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	837.5	5.6			
FM (30°-60°)	4186.3	27.9			
FH (60°-80°)	2514.8	16.7			G2/5000
FVH (80°-90°)	54.5	0.4			G1/100
BL (0°-30°)	804.9	5.4	B2/1000		
BM (30°-60°)	3881.3	25.8	B3/5000		
BH (60°-80°)	2674.4	17.8	B4/5000		G4/5000
BVH (80°-90°)	66.7	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°	1520.9	1520.9	1520.9	1520.9	1520.9	1520.9	1520.9	1520.9	1520.9	1520.9	1520.9
2.5°	1489.5	1491.6	1494.7	1501.0	1507.3	1516.7	1526.1	1525.1	1529.3	1532.4	1535.5
5°	1481.2	1483.2	1488.5	1496.8	1506.3	1521.9	1541.8	1550.2	1556.5	1568.0	1578.4
7.5°	1498.9	1503.1	1510.4	1521.9	1536.6	1556.5	1583.7	1598.3	1607.7	1628.6	1646.4
10°	1523.0	1528.2	1542.9	1564.8	1586.8	1617.1	1651.7	1673.6	1679.9	1707.1	1740.6
12.5°	1546.0	1552.3	1576.3	1616.1	1655.8	1696.6	1737.4	1764.6	1766.7	1803.3	1841.0
15°	1582.6	1587.8	1620.3	1671.5	1732.2	1788.7	1838.9	1857.7	1866.1	1892.2	1939.3
17.5°	1663.2	1669.4	1711.3	1766.7	1830.5	1890.1	1940.3	1956.0	1956.0	1978.0	2016.7
20°	1750.0	1756.3	1811.7	1882.8	1960.2	2020.9	2059.6	2045.0	2039.7	2046.0	2073.2
22.5°	1847.3	1858.8	1912.1	1994.7	2089.9	2164.2	2184.1	2140.1	2125.5	2110.8	2117.1
25°	1971.7	1985.3	2037.6	2125.5	2218.6	2297.0	2308.5	2240.6	2232.2	2180.9	2162.1
27.5°	2115.0	2125.5	2190.3	2277.2	2364.0	2429.9	2442.4	2358.8	2330.5	2259.4	2215.5
30°	2300.2	2309.6	2366.1	2451.8	2527.2	2573.2	2588.9	2473.8	2451.8	2343.1	2275.1
32.5°	2502.1	2506.2	2563.8	2646.4	2713.4	2757.3	2735.3	2601.4	2569.0	2446.6	2353.5
35°	2733.2	2733.2	2807.5	2874.4	2927.8	2940.3	2898.5	2745.8	2708.1	2575.3	2459.2
37.5°	2960.2	2966.5	3035.5	3115.0	3162.1	3160.0	3083.6	2916.3	2873.4	2729.0	2600.4
40°	3206.0	3219.6	3288.7	3377.6	3422.5	3416.3	3299.1	3112.9	3069.0	2898.5	2773.0
42.5°	3432.0	3453.9	3534.5	3625.5	3674.6	3670.5	3548.1	3338.9	3296.0	3103.5	2978.0
45°	3611.9	3634.9	3735.3	3861.9	3940.3	3933.0	3809.6	3573.2	3520.9	3319.0	3180.9
47.5°	3769.8	3793.9	3905.8	4039.7	4164.2	4176.7	4063.8	3809.6	3754.1	3550.2	3394.3
50°	3891.2	3902.7	4028.2	4174.6	4319.0	4389.1	4290.7	4047.0	3980.1	3778.2	3602.5
52.5°	3881.7	3897.4	4052.2	4251.0	4444.5	4559.6	4491.6	4270.9	4206.0	3986.3	3814.8
55°	3690.3	3706.0	3890.1	4179.9	4514.6	4684.0	4676.7	4484.2	4437.2	4198.7	4035.5
57.5°	3411.0	3445.6	3628.6	3941.4	4422.5	4783.4	4812.7	4678.8	4629.6	4406.8	4254.1
60°	2911.0	2957.1	3168.4	3574.2	4127.6	4749.9	4958.1	4843.0	4812.7	4600.4	4451.8
62.5°	2115.0	2148.5	2429.9	2962.3	3690.3	4511.4	5080.5	5012.5	4989.5	4774.0	4630.7
65°	1266.7	1343.1	1569.0	2095.2	2976.9	4061.7	5013.5	5234.2	5210.2	4952.9	4783.4
67.5°	641.2	675.7	764.6	1136.0	2002.1	3360.8	4677.8	5372.3	5401.6	5105.6	4837.8
70°	397.5	406.9	432.0	560.7	1000.0	2208.1	3825.3	5012.5	5155.8	5081.5	4696.6
72.5°	319.0	321.1	325.3	349.4	480.1	1032.4	2418.4	3925.7	4184.0	4745.7	4494.7
75°	264.6	265.7	266.7	274.1	299.2	421.5	1176.8	2697.7	3000.0	4033.4	4167.3
77.5°	212.3	207.1	211.3	214.4	220.7	235.4	405.9	1439.3	1745.8	2647.5	3222.8
80°	138.1	136.0	144.3	147.5	153.8	163.2	216.5	488.5	593.1	963.4	1025.1
82.5°	74.3	70.1	87.9	84.7	87.9	95.2	127.6	178.9	200.8	290.8	245.8
85°	23.0	23.0	24.1	28.2	34.5	33.5	55.4	87.9	97.3	124.5	92.0
87.5°	4.2	4.2	4.2	4.2	4.2	5.2	11.5	17.8	24.1	42.9	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°	1520.9	1520.9	1520.9	1520.9	1520.9	1520.9	1520.9	1520.9	1520.9	1520.9	1520.9
2.5°	1541.8	1532.4	1537.6	1540.8	1539.7	1537.6	1527.2	1525.1	1519.9	1511.5	1509.4
5°	1587.8	1577.4	1578.4	1575.3	1564.8	1551.2	1528.2	1516.7	1507.3	1496.8	1495.8
7.5°	1660.0	1648.5	1645.4	1630.7	1601.4	1570.1	1533.5	1512.5	1496.8	1483.2	1481.2
10°	1752.1	1740.6	1730.1	1695.6	1647.5	1605.6	1557.5	1527.2	1504.2	1487.4	1484.3
12.5°	1854.6	1845.2	1819.0	1768.8	1711.3	1662.1	1612.9	1575.3	1541.8	1516.7	1513.6
15°	1968.6	1947.7	1907.9	1843.1	1788.7	1748.9	1689.3	1638.1	1584.7	1551.2	1543.9
17.5°	2048.1	2030.3	1983.2	1920.5	1877.6	1843.1	1773.0	1699.8	1627.6	1578.4	1568.0
20°	2104.6	2085.7	2032.4	1986.4	1972.8	1943.5	1861.9	1777.2	1693.5	1632.8	1619.2
22.5°	2145.4	2125.5	2071.1	2048.1	2066.9	2061.7	1982.2	1886.0	1786.6	1714.4	1697.7
25°	2184.1	2165.2	2117.1	2125.5	2175.7	2191.4	2105.6	1993.7	1880.7	1796.0	1776.1
27.5°	2220.7	2196.6	2174.7	2220.7	2291.8	2321.1	2230.1	2103.5	1981.1	1894.3	1878.6
30°	2277.2	2248.9	2245.8	2312.7	2425.7	2450.8	2350.4	2223.8	2102.5	2014.6	1994.7
32.5°	2348.3	2322.1	2324.2	2424.7	2555.4	2576.3	2490.6	2372.4	2251.0	2163.1	2136.0
35°	2444.5	2412.1	2429.9	2553.3	2685.1	2723.8	2654.8	2556.4	2438.3	2348.3	2318.0
37.5°	2577.4	2530.3	2566.9	2696.6	2829.5	2887.0	2833.6	2760.4	2643.3	2552.3	2524.0
40°	2746.8	2708.1	2722.8	2866.1	3003.1	3072.1	3038.7	2966.5	2850.4	2755.2	2722.8
42.5°	2947.7	2909.0	2903.7	3056.4	3193.5	3298.1	3265.6	3199.7	3079.5	2970.7	2939.3
45°	3144.3	3108.7	3116.1	3271.9	3425.7	3539.7	3507.3	3429.9	3299.1	3173.6	3148.5
47.5°	3349.3	3320.0	3326.3	3491.6	3661.0	3775.1	3734.3	3640.1	3487.4	3353.5	3323.2
50°	3559.6	3526.1	3535.5	3709.2	3892.2	3999.9	3937.2	3798.1	3629.7	3498.9	3472.8
52.5°	3768.8	3729.0	3753.1	3917.3	4106.6	4192.4	4076.3	3907.9	3744.7	3615.0	3585.7
55°	4009.4	3967.5	3941.4	4117.1	4304.3	4339.9	4180.9	3984.3	3790.7	3643.3	3625.5
57.5°	4229.0	4193.5	4144.3	4320.0	4458.1	4431.9	4261.4	3963.3	3678.8	3489.5	3464.4
60°	4425.7	4395.3	4352.4	4502.0	4564.8	4506.2	4196.6	3715.4	3402.7	3205.0	3193.5
62.5°	4606.6	4574.2	4534.5	4662.1	4653.7	4517.7	3901.6	3334.7	2916.3	2703.9	2685.1
65°	4749.9	4720.6	4709.1	4809.6	4796.0	4292.8	3442.4	2711.3	2130.7	1891.2	1883.9
67.5°	4790.7	4779.2	4840.9	5011.4	4799.1	3841.0	2699.8	1798.1	1144.3	917.4	903.8
70°	4638.0	4637.0	4813.7	5057.5	4364.0	2934.1	1593.1	810.7	575.3	510.5	502.1
72.5°	4439.3	4436.1	4576.3	4362.9	3236.4	1605.6	670.5	434.1	359.8	342.0	342.0
75°	4112.9	4104.5	4210.2	3319.0	1820.1	604.6	355.6	298.1	282.4	279.3	279.3
77.5°	3352.5	3282.4	3116.1	2051.2	634.9	297.1	235.4	234.3	224.9	223.8	223.8
80°	1102.5	1102.5	1281.4	782.4	280.3	183.1	166.3	174.7	165.3	159.0	157.9
82.5°	179.9	247.9	352.5	223.8	151.7	114.0	102.5	108.8	114.0	91.0	91.0
85°	71.1	93.1	136.0	104.6	70.1	46.0	49.2	54.4	48.1	41.8	40.8
87.5°	27.2	33.5	48.1	25.1	14.6	8.4	5.2	5.2	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)