

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: P637395

Luminaire Tested: GWS-SA4C-760-U-T2R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637395
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-11)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4C-760-U-T2R-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: (64) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19969.7 lumens
Efficiency: N/A
Efficacy: 155.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 128.5
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

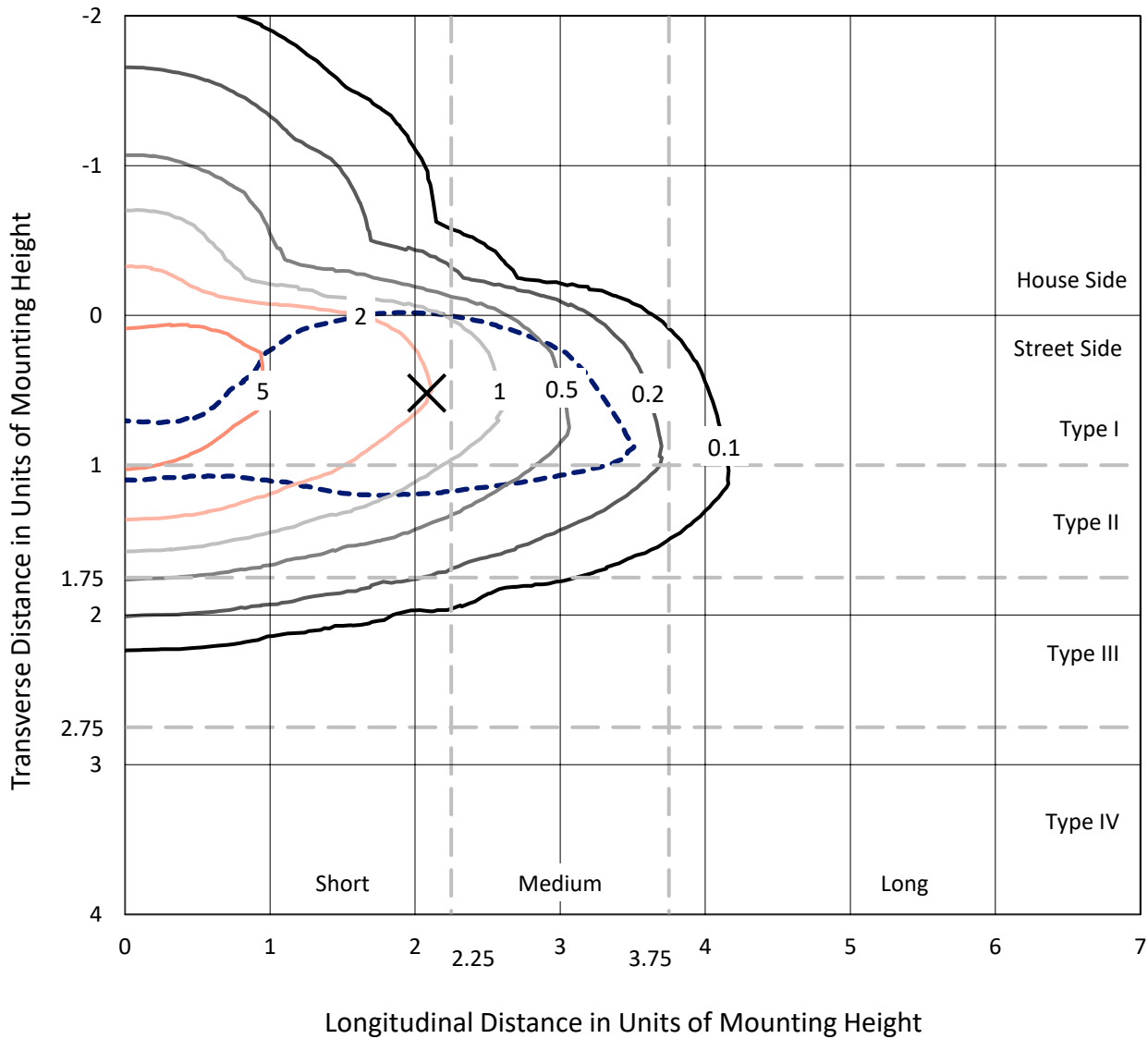


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Iso-Footcandle Lines of Horizontal Illumination

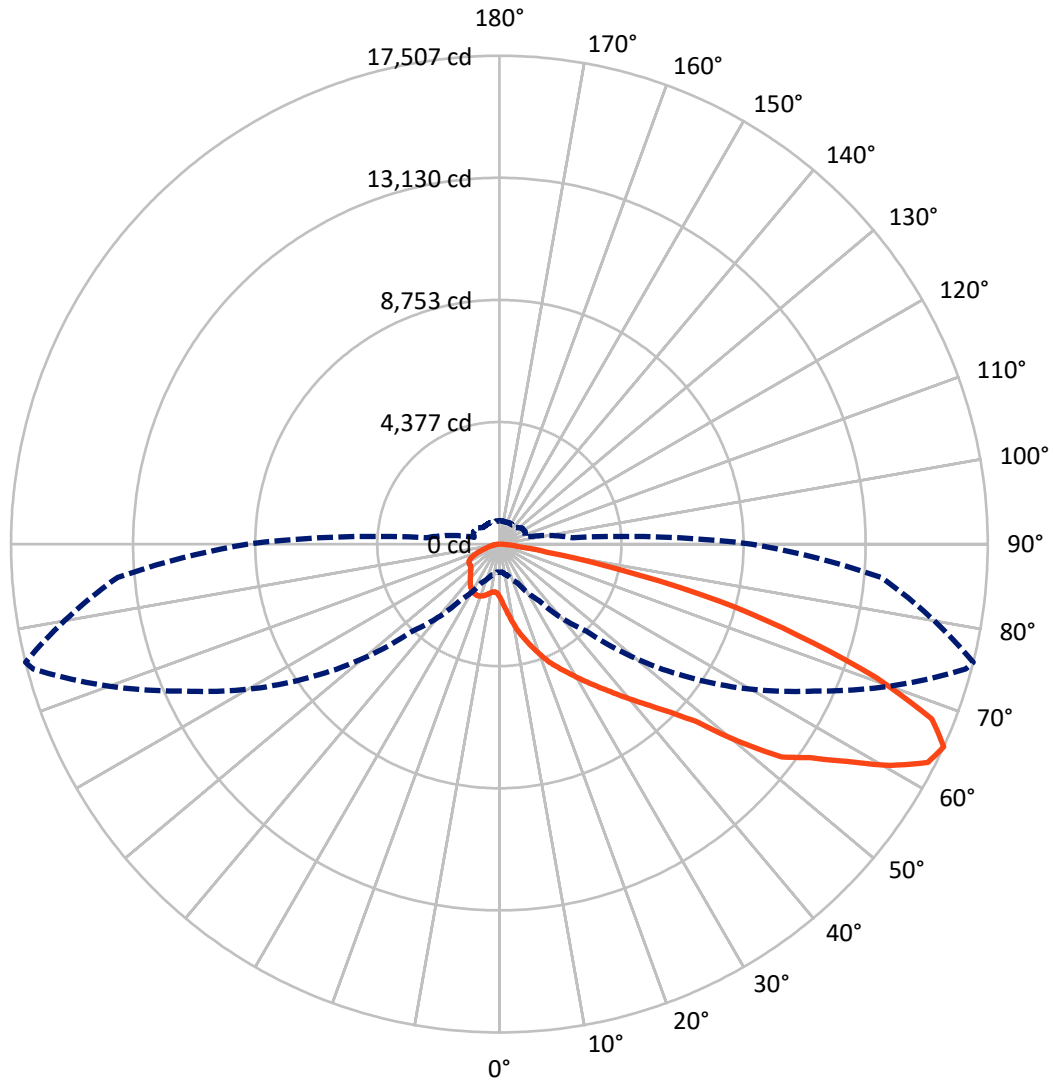
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3338.0	0.0	3338.0
	% Fixture	16.7	0.0	16.7
Street Side	Lumens	16631.7	0.0	16631.7
	% Fixture	83.3	0.0	83.3
Total	Lumens	19969.7	0.0	19969.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	224.7	1.1
10°-20°	855.7	4.3
20°-30°	1667.7	8.4
30°-40°	2789.1	14.0
40°-50°	3993.5	20.0
50°-60°	4727.8	23.7
60°-70°	3931.2	19.7
70°-80°	1608.7	8.1
80°-90°	171.3	0.9
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°	19969.7	100.0
0°-180°	19969.7	100.0

Coefficient of Utilization



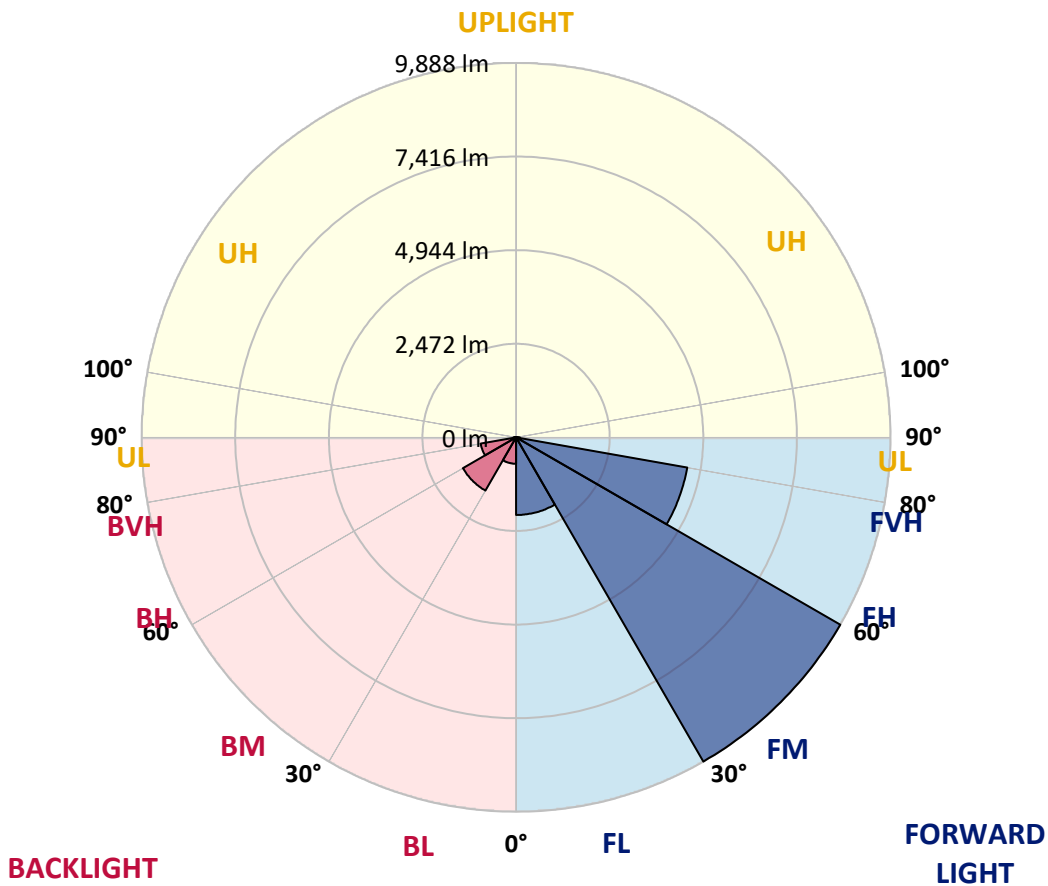
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2049.8	10.3			
FM (30°-60°)	9888.2	49.5			
FH (60°-80°)	4591.5	23.0			G2/5000
FVH (80°-90°)	102.1	0.5			G2/225
BL (0°-30°)	698.3	3.5	B2/1000		
BM (30°-60°)	1622.2	8.1	B2/2500		
BH (60°-80°)	948.4	4.7	B2/1000		G2/1000
BVH (80°-90°)	69.1	0.3			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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1891.1	1891.1	1891.1	1891.1	1891.1	1891.1	1891.1	1891.1	1891.1	1891.1	1891.1
2.5°	2650.6	2660.4	2628.1	2616.9	2541.1	2438.6	2352.9	2223.8	2104.4	2086.2	1979.5
5°	3366.6	3324.4	3287.9	3264.1	3158.8	3042.3	2861.2	2618.3	2364.2	2333.3	2103.0
7.5°	3791.9	3784.9	3740.0	3726.0	3644.5	3528.0	3341.3	3039.4	2670.2	2619.7	2270.1
10°	4133.1	4128.9	4106.4	4119.1	4044.6	3930.9	3749.8	3438.2	3005.8	2955.2	2456.8
12.5°	4430.7	4437.7	4433.5	4479.9	4441.9	4353.5	4165.4	3822.8	3341.3	3286.5	2684.3
15°	4648.3	4653.9	4675.0	4776.1	4797.1	4778.9	4588.0	4200.5	3672.6	3594.0	2918.7
17.5°	4710.1	4721.3	4771.9	4934.7	5048.4	5124.2	4982.5	4585.1	3998.3	3912.7	3157.4
20°	4792.9	4805.6	4856.1	5026.0	5193.0	5365.7	5340.4	4975.4	4326.8	4256.6	3398.8
22.5°	5176.2	5166.4	5143.9	5225.3	5344.7	5559.5	5622.6	5350.3	4666.6	4599.2	3665.6
25°	5914.6	5896.4	5753.2	5678.8	5639.5	5770.0	5882.4	5691.4	4997.9	4896.8	3914.1
27.5°	6728.9	6719.1	6536.6	6359.7	6118.2	6062.1	6128.0	5989.0	5319.4	5216.9	4130.3
30°	7499.6	7470.2	7279.2	7057.4	6734.5	6493.0	6396.2	6281.1	5671.8	5565.1	4383.0
32.5°	8189.0	8151.1	7926.4	7680.8	7342.4	7057.4	6768.2	6591.3	6070.5	5946.9	4641.3
35°	8754.7	8716.8	8486.6	8225.5	7853.4	7642.8	7246.9	6928.3	6476.2	6351.3	4945.9
37.5°	9192.8	9157.7	8917.6	8660.7	8336.4	8169.3	7825.4	7307.3	6943.7	6813.1	5268.8
40°	9438.4	9413.2	9220.8	9017.3	8744.9	8600.3	8445.9	7786.0	7467.4	7336.8	5649.3
42.5°	9512.8	9496.0	9361.2	9255.9	9072.0	8962.5	9051.0	8349.0	8026.1	7912.4	6077.5
45°	9326.1	9326.1	9286.8	9340.2	9348.6	9347.2	9657.4	8985.0	8712.6	8587.7	6681.2
47.5°	8848.8	8879.7	8937.2	9199.8	9476.3	9708.0	10366.4	9832.9	9595.7	9493.2	7536.1
50°	7975.6	8059.8	8256.4	8768.8	9357.0	9946.6	11037.5	11086.6	11312.6	11131.5	8794.0
52.5°	6696.6	6684.0	7185.2	7915.2	8812.3	9956.5	11406.7	12192.9	12800.8	12675.8	9729.0
55°	5322.2	5301.1	5768.6	6775.2	7977.0	9580.2	11628.5	12699.7	13626.3	13514.0	10570.0
57.5°	4075.5	4048.9	4464.4	5372.7	6797.7	8781.4	11586.4	13303.4	14762.0	14704.5	11712.8
60°	2805.0	2772.7	3161.6	3956.2	5402.2	7560.0	11120.3	13613.6	16091.5	16111.2	12935.6
62.5°	1684.7	1666.4	1948.6	2564.9	3886.0	6046.6	10029.5	13425.5	17150.1	17238.5	13721.7
65°	1016.4	1003.8	1169.5	1530.3	2465.3	4412.5	8347.6	12463.8	17303.1	17506.7	13740.0
67.5°	739.9	741.3	789.0	932.2	1437.6	2849.9	6264.2	10739.9	16505.7	16716.3	12873.8
70°	643.0	645.8	671.1	703.4	869.0	1631.3	4072.7	8478.2	14148.5	14311.4	10797.4
72.5°	571.4	571.4	588.2	605.1	679.5	994.0	2181.7	5925.9	11166.6	11210.2	8240.9
75°	502.6	498.4	506.8	515.2	589.6	694.9	1061.4	4128.9	8247.9	8146.8	5326.4
77.5°	400.1	395.9	397.3	405.7	473.1	497.0	537.7	2579.0	4648.3	4387.2	2352.9
80°	285.0	282.2	297.6	318.7	349.6	304.6	336.9	1248.1	1843.3	1715.6	912.5
82.5°	169.9	175.5	199.4	216.2	241.5	190.9	217.6	417.0	652.8	636.0	370.6
85°	23.9	25.3	71.6	82.8	103.9	74.4	115.1	188.1	261.1	279.4	130.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	9.8	33.7	74.4	75.8	32.3
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°	1891.1	1891.1	1891.1	1891.1	1891.1	1891.1	1891.1	1891.1	1891.1	1891.1	1891.1
2.5°	1924.8	1858.8	1764.7	1686.1	1620.1	1566.8	1521.8	1488.1	1478.3	1464.3	1464.3
5°	1994.9	1875.6	1707.1	1587.8	1519.0	1478.3	1450.2	1436.2	1429.2	1420.7	1416.5
7.5°	2091.8	1924.8	1697.3	1576.6	1523.2	1498.0	1479.7	1471.3	1465.7	1457.3	1457.3
10°	2225.2	1997.8	1728.2	1615.9	1573.8	1548.5	1527.4	1513.4	1500.8	1488.1	1485.3
12.5°	2369.8	2093.2	1784.4	1669.2	1624.3	1593.4	1563.9	1542.9	1527.4	1512.0	1507.8
15°	2529.8	2191.5	1844.7	1721.2	1665.0	1622.9	1587.8	1555.5	1534.5	1512.0	1509.2
17.5°	2687.1	2291.2	1895.3	1756.3	1684.7	1632.7	1582.2	1540.1	1513.4	1488.1	1481.1
20°	2875.2	2390.8	1930.4	1766.1	1680.5	1611.7	1551.3	1498.0	1468.5	1439.0	1434.8
22.5°	3047.9	2483.5	1947.2	1752.1	1648.2	1566.8	1496.6	1439.0	1406.7	1377.2	1371.6
25°	3214.9	2564.9	1940.2	1718.4	1599.0	1505.0	1432.0	1374.4	1343.5	1312.6	1304.2
27.5°	3376.4	2619.7	1912.1	1666.4	1537.3	1436.2	1366.0	1314.1	1287.4	1260.7	1249.5
30°	3535.0	2670.2	1868.6	1599.0	1458.7	1364.6	1307.0	1270.5	1243.9	1215.8	1207.4
32.5°	3695.1	2706.7	1802.6	1520.4	1378.6	1301.4	1266.3	1239.6	1211.6	1183.5	1175.1
35°	3856.5	2722.2	1722.6	1430.6	1311.2	1260.7	1248.1	1217.2	1179.3	1145.6	1134.4
37.5°	4048.9	2736.2	1622.9	1342.1	1252.3	1241.0	1238.2	1191.9	1147.0	1100.7	1088.0
40°	4280.5	2754.5	1520.4	1262.1	1204.5	1234.0	1222.8	1159.6	1069.8	1024.8	1010.8
42.5°	4564.1	2788.2	1413.7	1189.1	1169.5	1207.4	1194.7	1081.0	1020.6	995.4	988.3
45°	4981.0	2911.7	1307.0	1131.5	1142.8	1169.5	1149.8	1034.7	1010.8	994.0	985.5
47.5°	5723.7	3101.2	1214.4	1088.0	1121.7	1135.8	1059.9	1022.0	1003.8	981.3	971.5
50°	6495.9	3184.1	1140.0	1061.4	1097.9	1104.9	1010.8	1005.2	992.6	968.7	958.9
52.5°	7018.1	3172.8	1095.0	1051.5	1078.2	1051.5	988.3	986.9	978.5	950.4	939.2
55°	7607.7	3192.5	1075.4	1054.3	1069.8	961.7	960.3	964.5	960.3	929.4	923.8
57.5°	8403.8	3252.8	1065.6	1064.2	1064.2	918.2	933.6	939.2	930.8	916.7	912.5
60°	9168.9	3257.1	1047.3	1075.4	1059.9	891.5	902.7	908.3	898.5	895.7	894.3
62.5°	9456.7	3054.9	1006.6	1067.0	1043.1	862.0	870.4	873.2	863.4	870.4	869.0
65°	9028.5	2625.3	939.2	1026.3	991.2	835.3	829.7	836.7	819.9	838.1	839.5
67.5°	8016.3	2086.2	836.7	949.0	918.2	805.8	794.6	794.6	766.5	794.6	793.2
70°	6463.6	1474.1	686.5	825.5	838.1	770.7	765.1	732.8	687.9	730.0	725.8
72.5°	4899.6	1058.5	540.5	652.8	721.6	721.6	723.0	668.3	616.3	636.0	619.1
75°	3104.0	745.5	432.4	499.8	565.8	633.2	665.4	564.4	518.0	509.6	501.2
77.5°	1398.3	490.0	336.9	383.3	401.5	499.8	607.9	485.8	422.6	404.3	398.7
80°	585.4	304.6	240.1	271.0	247.1	419.8	536.3	377.6	310.3	285.0	266.7
82.5°	256.9	181.1	153.0	146.0	154.4	311.7	400.1	251.3	193.7	262.5	265.3
85°	108.1	95.5	78.6	71.6	63.2	119.3	188.1	98.3	120.7	68.8	56.2
87.5°	25.3	28.1	21.1	14.0	8.4	1.4	0.0	0.0	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)