

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: P636373

Luminaire Tested: GWS-SA3F-760-U-AFL-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636373
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-47)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA3F-760-U-AFL-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (48) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22378.9 lumens
Efficiency: N/A
Efficacy: 122.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

Input Watts (W): 183.2
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

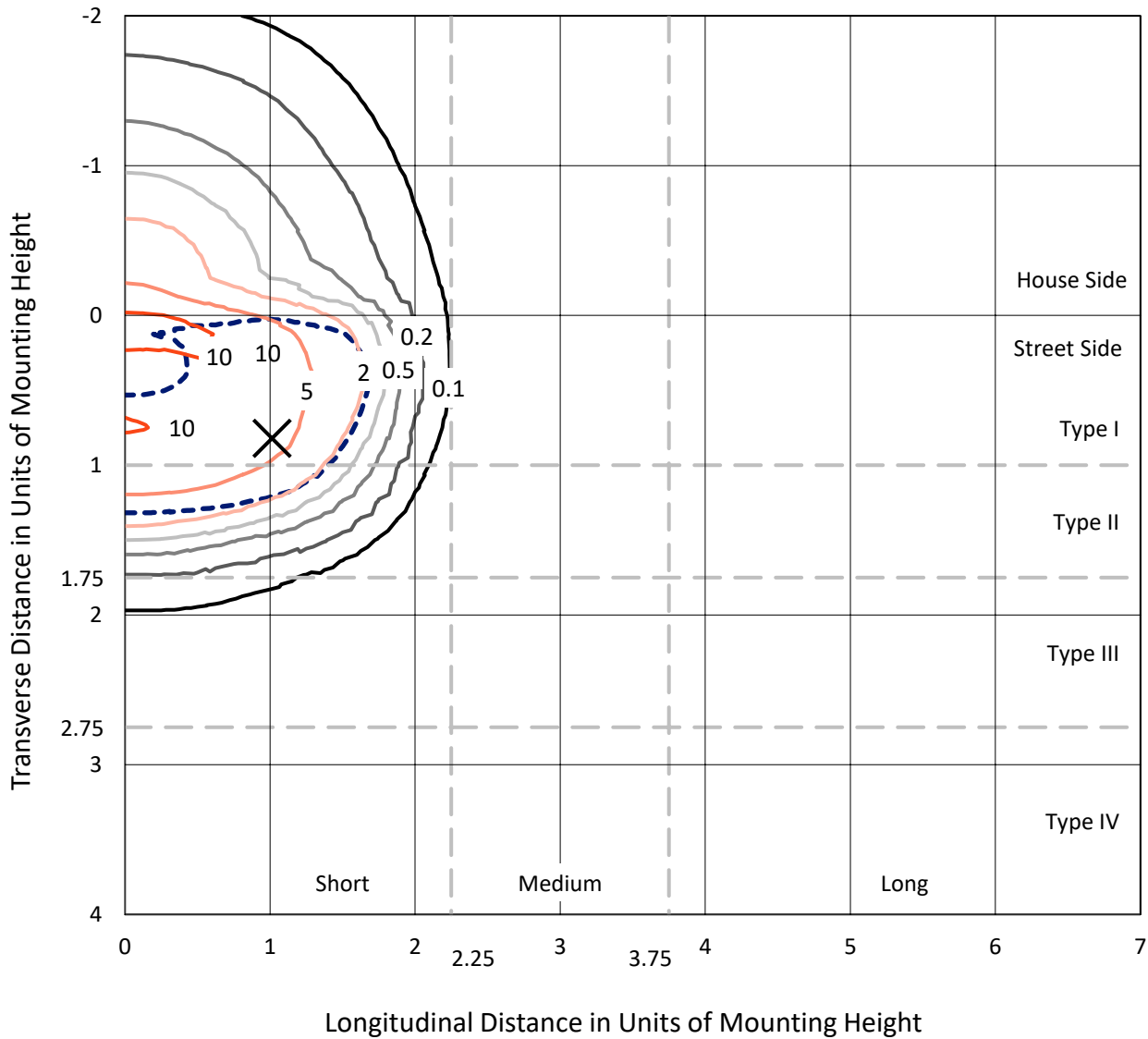


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Iso-Footcandle Lines of Horizontal Illumination

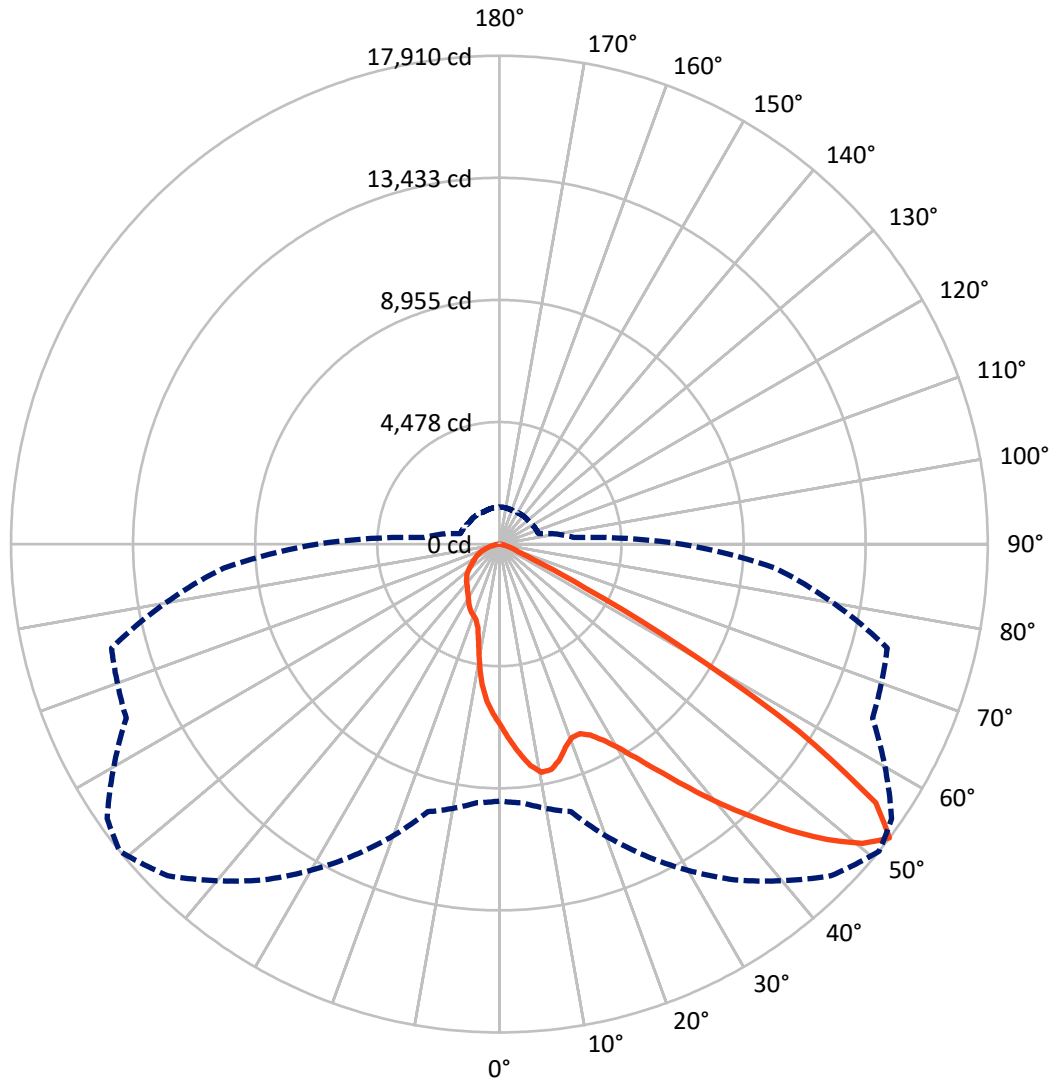
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 51-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4360.4	0.0	4360.4
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	18018.6	0.0	18018.6
	% Fixture	80.5	0.0	80.5
Total	Lumens	22378.9	0.0	22378.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	621.8	2.8
10°-20°	1615.6	7.2
20°-30°	2626.9	11.7
30°-40°	4163.0	18.6
40°-50°	6278.7	28.1
50°-60°	5431.6	24.3
60°-70°	1231.4	5.5
70°-80°	363.1	1.6
80°-90°	46.8	0.2
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°	22378.9	100.0
0°-180°	22378.9	100.0

Coefficient of Utilization



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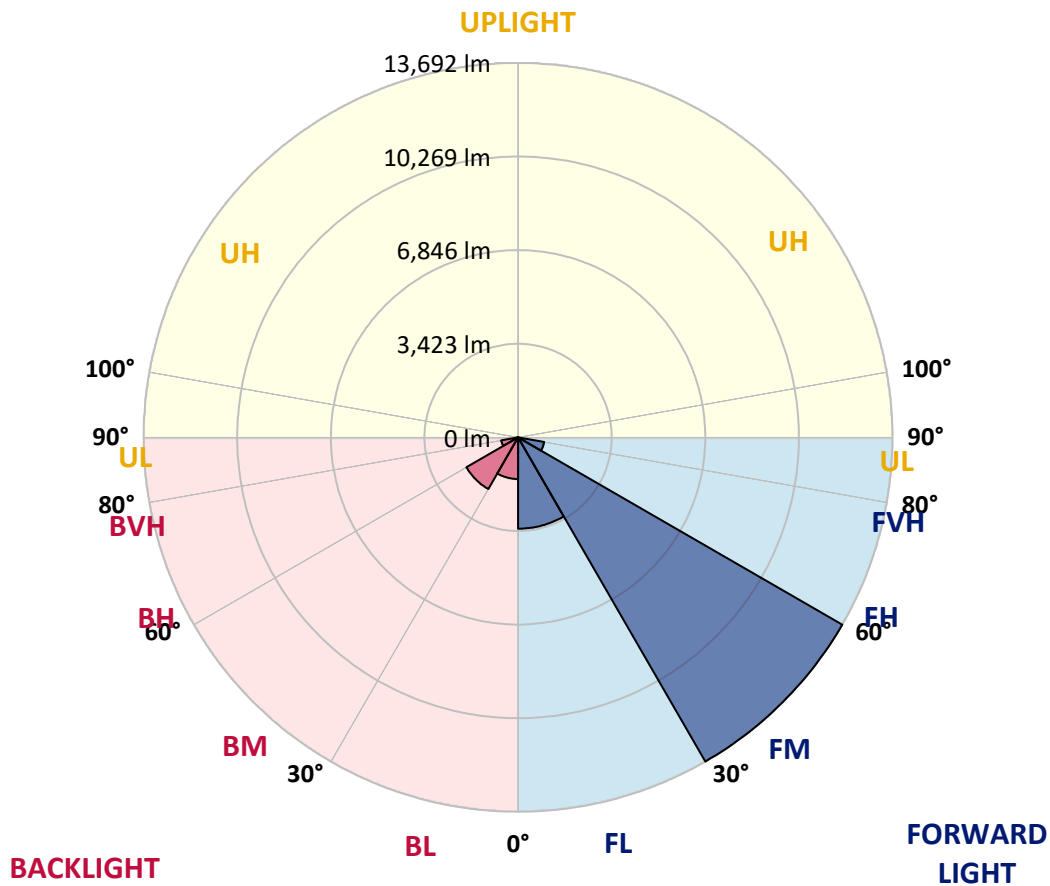
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3340.1	14.9			
FM (30°-60°)	13691.7	61.2			
FH (60°-80°)	969.1	4.3			G1/1800
FVH (80°-90°)	17.6	0.1			G1/100
BL (0°-30°)	1524.2	6.8	B3/2500		
BM (30°-60°)	2181.6	9.7	B2/2500		
BH (60°-80°)	625.4	2.8	B2/1000		G2/1000
BVH (80°-90°)	29.1	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	51°	55°	65°	75°	85°
0°	6663.3	6663.3	6663.3	6663.3	6663.3	6663.3	6663.3	6663.3	6663.3	6663.3	6663.3
2.5°	7425.5	7467.9	7402.5	7377.7	7337.1	7266.3	7185.0	7162.0	6986.9	6872.0	6742.9
5°	8171.8	8194.7	8141.7	8088.6	7987.8	7862.3	7704.9	7671.3	7353.0	7089.5	6815.4
7.5°	8338.0	8329.1	8375.1	8405.2	8392.8	8343.3	8203.6	8138.2	7758.0	7340.6	6935.6
10°	7680.1	7630.6	7800.4	8002.0	8244.3	8523.7	8507.8	8502.4	8171.8	7678.4	7089.5
12.5°	6808.3	6783.6	6921.5	7174.4	7632.4	8251.3	8483.0	8663.4	8544.9	8000.2	7261.0
15°	6309.6	6300.8	6394.5	6576.7	6941.0	7722.6	8217.7	8575.0	8865.0	8345.1	7443.2
17.5°	6219.4	6224.8	6256.6	6360.9	6622.6	7266.3	7839.3	8338.0	9114.3	8723.5	7671.3
20°	6482.9	6518.3	6463.5	6479.4	6620.9	7101.9	7581.1	8099.3	9273.5	9103.7	7917.1
22.5°	7068.3	7055.9	6935.6	6864.9	6866.7	7202.7	7552.8	7987.8	9377.8	9473.3	8139.9
25°	7731.4	7717.3	7574.0	7416.7	7317.6	7476.8	7756.2	8106.3	9471.5	9811.1	8318.5
27.5°	8514.8	8470.6	8311.5	8109.9	7890.6	7959.5	8148.8	8426.4	9616.5	10143.5	8437.0
30°	9273.5	9324.8	9096.6	8857.9	8626.2	8583.8	8693.4	8944.5	9911.9	10532.6	8578.5
32.5°	10279.7	10262.0	10009.1	9697.9	9367.2	9335.4	9422.0	9651.9	10442.4	11070.2	8794.2
35°	11498.1	11501.6	11142.7	10721.8	10251.4	10166.5	10311.5	10534.3	11232.8	11798.7	9135.5
37.5°	12764.3	12759.0	12446.0	11968.5	11326.6	11206.3	11372.6	11538.8	12221.4	12790.8	9666.1
40°	13652.0	13687.4	13540.6	13289.5	12681.2	12387.6	12534.4	12649.3	13296.6	13957.9	10364.6
42.5°	14156.0	14209.1	14240.9	14391.2	14071.1	13758.1	13705.1	13765.2	14256.8	15042.0	11020.6
45°	14263.9	14334.6	14566.3	15123.3	15247.1	15158.7	14985.4	14840.4	14973.0	15811.2	11450.4
47.5°	13788.2	13912.0	14407.1	15381.5	16104.8	16382.4	16189.7	15968.6	15386.8	16009.3	11406.2
50°	11903.1	12048.1	13163.9	14854.5	16226.8	17238.3	17256.0	16928.9	15337.3	15438.1	10850.9
52.5°	9423.8	9522.8	10161.2	12592.7	15029.6	17203.0	17910.3	17560.2	15098.6	14723.7	10155.9
55°	5632.3	5791.5	6387.4	8307.9	11708.5	15247.1	16753.8	16923.5	14981.8	14124.2	9682.0
57.5°	1901.0	1978.8	2548.3	3669.4	6900.3	11163.9	12944.7	13634.3	13600.7	13208.1	8757.1
60°	905.4	923.1	1038.0	1391.7	2762.2	5833.9	7662.5	8458.2	9183.3	9255.8	5448.4
62.5°	689.7	700.3	758.6	834.7	1110.6	2458.1	3512.0	4120.4	4401.5	3777.3	1984.1
65°	576.5	585.3	629.5	677.3	755.1	1064.6	1347.5	1554.4	1400.6	1091.1	946.1
67.5°	481.0	488.1	521.7	573.0	626.0	712.7	748.0	769.3	806.4	905.4	870.1
70°	376.7	383.7	419.1	463.3	514.6	535.8	569.4	590.6	664.9	792.2	788.7
72.5°	290.0	298.9	318.3	346.6	389.0	410.3	447.4	472.2	514.6	617.2	659.6
75°	212.2	217.5	235.2	244.0	249.3	244.0	281.2	309.5	366.1	405.0	415.6
77.5°	86.7	97.3	93.7	93.7	111.4	134.4	153.9	171.5	210.4	233.4	235.2
80°	35.4	38.9	46.0	51.3	61.9	79.6	92.0	99.0	116.7	130.9	141.5
82.5°	21.2	23.0	26.5	28.3	35.4	46.0	53.1	58.4	72.5	86.7	92.0
85°	10.6	10.6	12.4	14.1	17.7	21.2	24.8	28.3	37.1	46.0	51.3
87.5°	1.8	1.8	1.8	3.5	5.3	7.1	8.8	10.6	12.4	14.1	17.7
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°	6663.3	6663.3	6663.3	6663.3	6663.3	6663.3	6663.3	6663.3	6663.3	6663.3	6663.3
2.5°	6666.9	6571.4	6459.9	6371.5	6269.0	6192.9	6085.0	6017.9	5954.2	5901.1	5862.2
5°	6673.9	6513.0	6281.3	6076.2	5864.0	5662.4	5455.5	5287.5	5137.2	5011.6	5001.0
7.5°	6714.6	6482.9	6120.4	5761.4	5347.6	4948.0	4548.3	4222.9	3975.4	3846.3	3819.7
10°	6783.6	6479.4	5956.0	5383.0	4677.4	4033.7	3559.8	3312.2	3169.0	3117.7	3100.0
12.5°	6856.1	6470.6	5745.5	4848.9	3869.2	3305.1	3045.2	3015.1	3041.6	3045.2	3043.4
15°	6944.5	6465.3	5480.3	4222.9	3278.6	2967.4	2985.1	3048.7	3110.6	3124.8	3124.8
17.5°	7052.4	6452.9	5119.5	3611.1	2909.0	2901.9	2995.7	3080.5	3138.9	3149.5	3149.5
20°	7165.5	6421.0	4675.6	3112.4	2758.7	2861.3	2962.1	3027.5	3068.2	3082.3	3084.1
22.5°	7243.3	6336.2	4164.6	2742.8	2665.0	2783.5	2856.0	2923.2	2923.2	2887.8	2877.2
25°	7259.3	6154.0	3611.1	2489.9	2553.6	2663.2	2737.5	2698.6	2626.1	2597.8	2596.0
27.5°	7200.9	5888.8	3064.6	2309.5	2419.2	2528.8	2516.4	2459.8	2428.0	2399.7	2410.3
30°	7130.2	5570.4	2590.7	2161.0	2263.5	2371.4	2329.0	2309.5	2286.5	2254.7	2261.8
32.5°	7082.4	5215.0	2226.4	2046.0	2159.2	2176.9	2207.0	2205.2	2184.0	2123.8	2120.3
35°	7096.6	4856.0	1982.4	1952.3	2072.6	2065.5	2122.1	2111.5	1964.7	1881.6	1876.3
37.5°	7209.7	4511.2	1839.1	1878.0	1934.6	1978.8	2028.3	1901.0	1849.7	1796.7	1800.2
40°	7425.5	4191.1	1761.3	1837.4	1851.5	1916.9	1802.0	1800.2	1777.2	1729.5	1727.7
42.5°	7669.5	3920.5	1708.3	1817.9	1798.5	1810.8	1688.8	1703.0	1701.2	1671.1	1662.3
45°	7818.1	3671.2	1665.8	1745.4	1750.7	1626.9	1589.8	1605.7	1614.5	1598.6	1596.9
47.5°	7664.2	3384.7	1621.6	1634.0	1680.0	1543.8	1497.8	1499.6	1515.5	1517.3	1510.2
50°	7232.7	3064.6	1568.6	1538.5	1508.4	1457.2	1414.7	1405.9	1421.8	1437.7	1443.0
52.5°	6675.7	2758.7	1480.1	1434.2	1363.4	1363.4	1344.0	1315.7	1336.9	1358.1	1365.2
55°	6267.2	2532.3	1354.6	1303.3	1225.5	1252.0	1248.5	1223.7	1252.0	1267.9	1273.2
57.5°	5430.7	2035.4	1191.9	1176.0	1110.6	1142.4	1149.5	1117.6	1103.5	1107.0	1112.3
60°	3223.8	1313.9	1075.2	1073.4	1015.1	1052.2	1073.4	1041.6	999.1	1004.4	1011.5
62.5°	1446.5	1004.4	928.4	921.3	919.6	967.3	990.3	960.2	900.1	905.4	912.5
65°	910.7	868.3	806.4	806.4	834.7	875.4	893.0	868.3	799.3	790.5	797.5
67.5°	845.3	808.2	744.5	732.1	746.3	779.9	781.6	733.9	693.2	686.1	686.1
70°	758.6	730.3	668.5	643.7	638.4	636.6	631.3	618.9	592.4	585.3	588.9
72.5°	627.8	608.3	569.4	542.9	528.8	527.0	505.8	495.2	472.2	468.6	466.9
75°	415.6	420.9	420.9	417.3	405.0	399.7	376.7	366.1	339.5	328.9	327.2
77.5°	245.8	251.1	258.2	260.0	258.2	258.2	237.0	224.6	198.1	183.9	180.4
80°	150.3	153.9	157.4	162.7	155.6	150.3	130.9	118.5	106.1	97.3	95.5
82.5°	97.3	100.8	102.6	106.1	102.6	95.5	79.6	72.5	63.7	56.6	54.8
85°	54.8	56.6	60.1	60.1	54.8	49.5	40.7	35.4	30.1	26.5	26.5
87.5°	19.5	19.5	19.5	21.2	17.7	15.9	10.6	7.1	5.3	5.3	5.3
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)