

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: P635768

Luminaire Tested: GWS-SA3E-740-U-AFL-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P635768
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-SA3E-740-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) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19950.7 lumens
Efficiency: N/A
Efficacy: 125.3 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

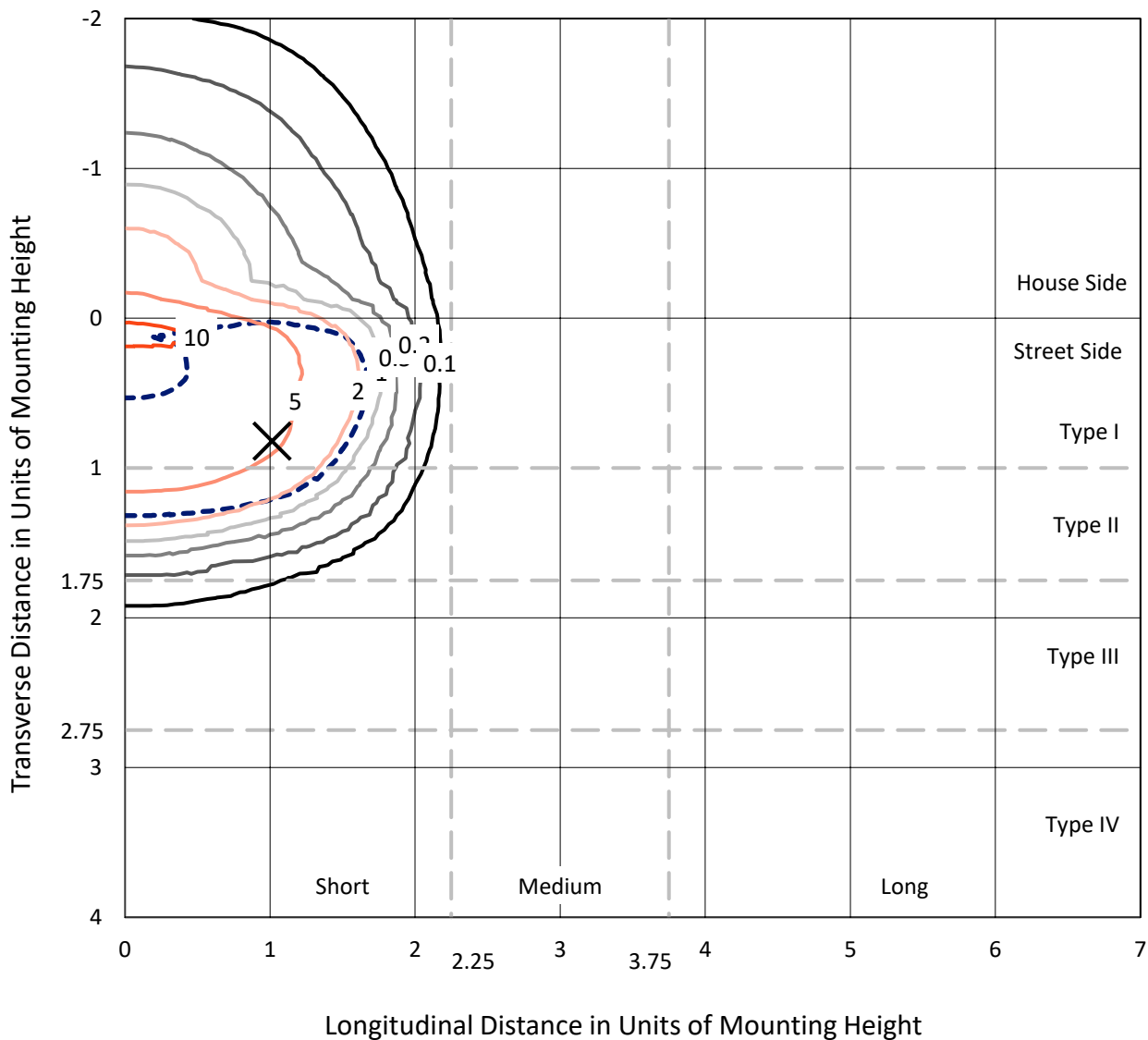
Input Watts (W): 159.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

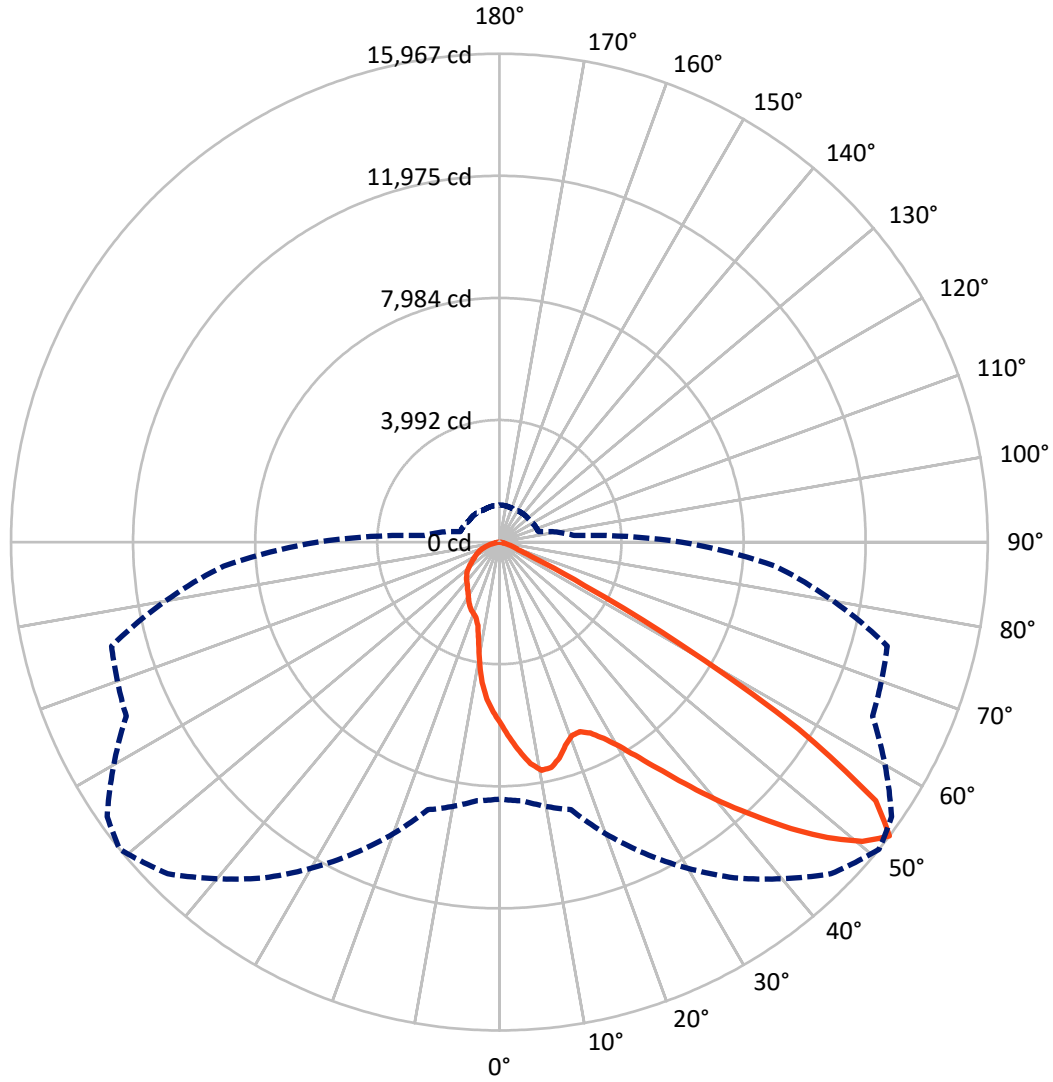
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.6 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	3887.2	0.0	3887.2
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	16063.5	0.0	16063.5
	% Fixture	80.5	0.0	80.5
Total	Lumens	19950.7	0.0	19950.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	554.3	2.8
10°-20°	1440.3	7.2
20°-30°	2341.9	11.7
30°-40°	3711.3	18.6
40°-50°	5597.5	28.1
50°-60°	4842.2	24.3
60°-70°	1097.8	5.5
70°-80°	323.7	1.6
80°-90°	41.7	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°	19950.7	100.0
0°-180°	19950.7	100.0

Coefficient of Utilization



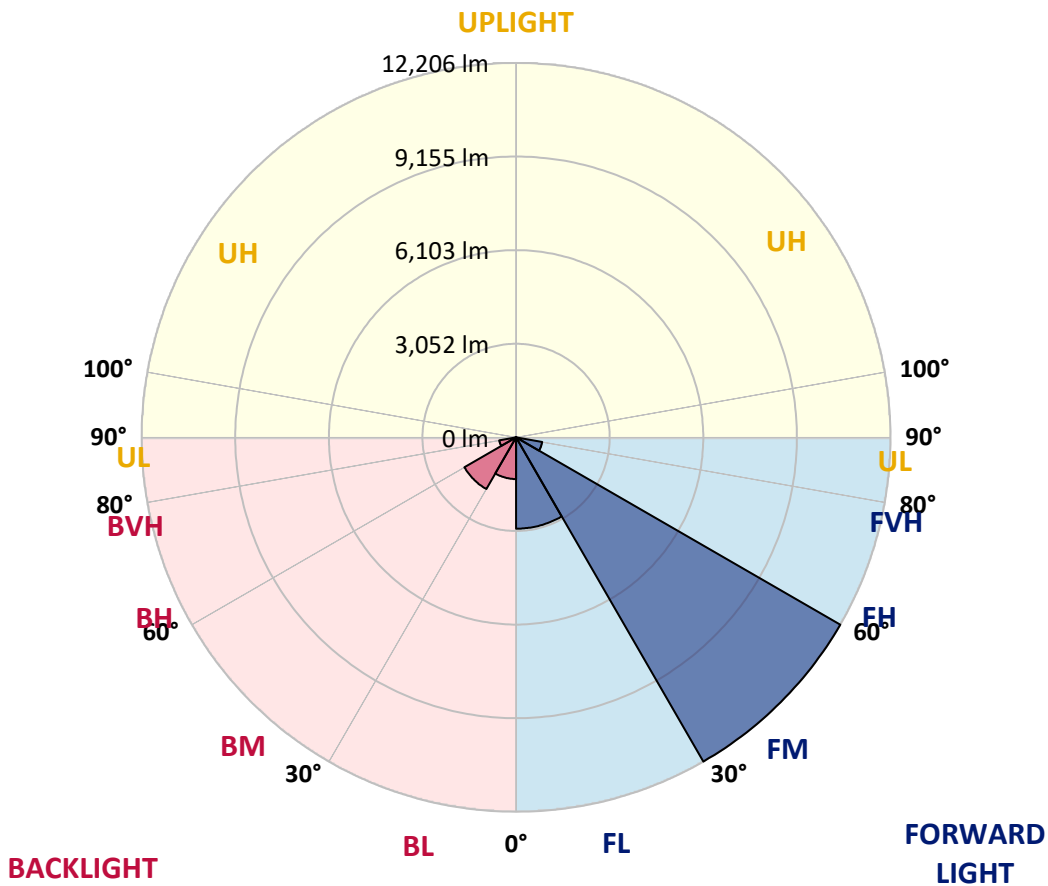
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2977.7	14.9			
FM (30°-60°)	12206.1	61.2			
FH (60°-80°)	863.9	4.3			G1/1800
FVH (80°-90°)	15.7	0.1			G1/100
BL (0°-30°)	1358.8	6.8	B3/2500		
BM (30°-60°)	1944.9	9.7	B2/2500		
BH (60°-80°)	557.5	2.8	B2/1000		G2/1000
BVH (80°-90°)	26.0	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°	5940.3	5940.3	5940.3	5940.3	5940.3	5940.3	5940.3	5940.3	5940.3	5940.3	5940.3
2.5°	6619.8	6657.6	6599.3	6577.2	6541.0	6477.9	6405.4	6384.9	6228.8	6126.3	6011.3
5°	7285.1	7305.6	7258.3	7211.0	7121.1	7009.2	6868.9	6838.9	6555.2	6320.3	6075.9
7.5°	7433.3	7425.4	7466.4	7493.2	7482.2	7438.0	7313.5	7255.1	6916.2	6544.1	6183.1
10°	6846.8	6802.7	6954.0	7133.7	7349.7	7598.8	7584.6	7579.9	7285.1	6845.2	6320.3
12.5°	6069.6	6047.5	6170.5	6395.9	6804.3	7356.0	7562.6	7723.4	7617.7	7132.2	6473.2
15°	5625.0	5617.1	5700.7	5863.1	6187.8	6884.7	7326.1	7644.5	7903.1	7439.6	6635.6
17.5°	5544.6	5549.3	5577.7	5670.7	5904.1	6477.9	6988.7	7433.3	8125.4	7777.0	6838.9
20°	5779.5	5811.0	5762.2	5776.4	5902.5	6331.3	6758.5	7220.5	8267.3	8115.9	7058.1
22.5°	6301.3	6290.3	6183.1	6120.0	6121.6	6421.2	6733.3	7121.1	8360.3	8445.4	7256.7
25°	6892.5	6879.9	6752.2	6611.9	6523.6	6665.5	6914.6	7226.8	8443.8	8746.5	7415.9
27.5°	7590.9	7551.5	7409.6	7229.9	7034.4	7095.9	7264.6	7512.1	8573.1	9042.9	7521.6
30°	8267.3	8313.0	8109.6	7896.8	7690.3	7652.4	7750.2	7974.0	8836.4	9389.7	7647.7
32.5°	9164.3	9148.5	8923.1	8645.6	8350.8	8322.4	8399.7	8604.6	9309.3	9869.0	7840.0
35°	10250.5	10253.7	9933.6	9558.4	9139.1	9063.4	9192.7	9391.3	10014.0	10518.5	8144.3
37.5°	11379.3	11374.6	11095.5	10669.9	10097.6	9990.4	10138.6	10286.8	10895.3	11403.0	8617.2
40°	12170.7	12202.2	12071.4	11847.5	11305.2	11043.5	11174.4	11276.8	11853.8	12443.5	9240.0
42.5°	12620.0	12667.3	12695.7	12829.7	12544.4	12265.3	12218.0	12271.6	12709.9	13409.9	9824.9
45°	12716.2	12779.3	12985.8	13482.4	13592.7	13513.9	13359.4	13230.1	13348.4	14095.6	10208.0
47.5°	12292.1	12402.5	12843.9	13712.6	14357.3	14604.9	14433.0	14236.0	13717.3	14272.2	10168.5
50°	10611.5	10740.8	11735.6	13242.7	14466.1	15367.9	15383.7	15092.0	13673.1	13763.0	9673.5
52.5°	8401.3	8489.5	9058.7	11226.4	13398.8	15336.4	15967.0	15654.8	13460.3	13126.1	9053.9
55°	5021.2	5163.1	5694.4	7406.5	10438.1	13592.7	14935.9	15087.3	13356.3	12591.6	8631.4
57.5°	1694.8	1764.1	2271.8	3271.3	6151.6	9952.6	11540.1	12155.0	12125.0	11775.0	7806.9
60°	807.2	822.9	925.4	1240.7	2462.5	5200.9	6831.1	7540.5	8186.9	8251.5	4857.3
62.5°	614.8	624.3	676.3	744.1	990.1	2191.4	3131.0	3673.3	3924.0	3367.4	1768.9
65°	513.9	521.8	561.2	603.8	673.2	949.1	1201.3	1385.8	1248.6	972.7	843.4
67.5°	428.8	435.1	465.1	510.8	558.1	635.3	666.9	685.8	718.9	807.2	775.6
70°	335.8	342.1	373.6	413.0	458.8	477.7	507.6	526.6	592.8	706.3	703.1
72.5°	258.5	266.4	283.8	309.0	346.8	365.8	398.9	420.9	458.8	550.2	588.0
75°	189.2	193.9	209.7	217.6	222.3	217.6	250.7	275.9	326.3	361.0	370.5
77.5°	77.2	86.7	83.6	83.6	99.3	119.8	137.2	152.9	187.6	208.1	209.7
80°	31.5	34.7	41.0	45.7	55.2	70.9	82.0	88.3	104.1	116.7	126.1
82.5°	18.9	20.5	23.6	25.2	31.5	41.0	47.3	52.0	64.6	77.2	82.0
85°	9.5	9.5	11.0	12.6	15.8	18.9	22.1	25.2	33.1	41.0	45.7
87.5°	1.6	1.6	1.6	3.2	4.7	6.3	7.9	9.5	11.0	12.6	15.8
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°	5940.3	5940.3	5940.3	5940.3	5940.3	5940.3	5940.3	5940.3	5940.3	5940.3	5940.3
2.5°	5943.5	5858.3	5759.0	5680.2	5588.8	5521.0	5424.8	5364.9	5308.1	5260.8	5226.2
5°	5949.8	5806.3	5599.8	5416.9	5227.7	5048.0	4863.6	4713.8	4579.8	4467.9	4458.4
7.5°	5986.0	5779.5	5456.3	5136.3	4767.4	4411.1	4054.8	3764.7	3544.0	3428.9	3405.3
10°	6047.5	5776.4	5309.7	4798.9	4169.9	3596.0	3173.5	2952.8	2825.1	2779.4	2763.6
12.5°	6112.2	5768.5	5122.1	4322.8	3449.4	2946.5	2714.8	2688.0	2711.6	2714.8	2713.2
15°	6191.0	5763.7	4885.6	3764.7	2922.9	2645.4	2661.2	2717.9	2773.1	2785.7	2785.7
17.5°	6287.2	5752.7	4564.0	3219.2	2593.4	2587.1	2670.6	2746.3	2798.3	2807.8	2807.8
20°	6388.0	5724.3	4168.3	2774.7	2459.4	2550.8	2640.7	2699.0	2735.3	2747.9	2749.4
22.5°	6457.4	5648.7	3712.7	2445.2	2375.8	2481.4	2546.1	2606.0	2606.0	2574.5	2565.0
25°	6471.6	5486.3	3219.2	2219.7	2276.5	2374.2	2440.4	2405.8	2341.1	2315.9	2314.3
27.5°	6419.6	5249.8	2732.1	2058.9	2156.7	2254.4	2243.4	2192.9	2164.6	2139.3	2148.8
30°	6356.5	4966.0	2309.6	1926.5	2017.9	2114.1	2076.3	2058.9	2038.4	2010.1	2016.4
32.5°	6314.0	4649.2	1984.8	1824.0	1924.9	1940.7	1967.5	1965.9	1947.0	1893.4	1890.2
35°	6326.6	4329.1	1767.3	1740.5	1847.7	1841.4	1891.8	1882.4	1751.5	1677.4	1672.7
37.5°	6427.5	4021.7	1639.6	1674.3	1724.7	1764.1	1808.3	1694.8	1649.0	1601.7	1604.9
40°	6619.8	3736.3	1570.2	1638.0	1650.6	1708.9	1606.5	1604.9	1584.4	1541.8	1540.3
42.5°	6837.4	3495.1	1522.9	1620.7	1603.3	1614.4	1505.6	1518.2	1516.6	1489.8	1481.9
45°	6969.8	3272.9	1485.1	1556.0	1560.8	1450.4	1417.3	1431.5	1439.4	1425.2	1423.6
47.5°	6832.6	3017.5	1445.7	1456.7	1497.7	1376.3	1335.3	1336.9	1351.1	1352.7	1346.3
50°	6448.0	2732.1	1398.4	1371.6	1344.8	1299.1	1261.2	1253.3	1267.5	1281.7	1286.4
52.5°	5951.4	2459.4	1319.5	1278.6	1215.5	1215.5	1198.2	1172.9	1191.8	1210.8	1217.1
55°	5587.2	2257.6	1207.6	1161.9	1092.5	1116.2	1113.0	1091.0	1116.2	1130.4	1135.1
57.5°	4841.5	1814.6	1062.6	1048.4	990.1	1018.4	1024.7	996.4	983.7	986.9	991.6
60°	2874.0	1171.4	958.5	956.9	904.9	938.0	956.9	928.6	890.7	895.5	901.8
62.5°	1289.6	895.5	827.7	821.4	819.8	862.4	882.8	856.0	802.4	807.2	813.5
65°	811.9	774.1	718.9	718.9	744.1	780.4	796.1	774.1	712.6	704.7	711.0
67.5°	753.6	720.5	663.7	652.7	665.3	695.2	696.8	654.3	618.0	611.7	611.7
70°	676.3	651.1	595.9	573.9	569.1	567.5	562.8	551.8	528.1	521.8	525.0
72.5°	559.7	542.3	507.6	484.0	471.4	469.8	450.9	441.4	420.9	417.8	416.2
75°	370.5	375.2	375.2	372.1	361.0	356.3	335.8	326.3	302.7	293.2	291.7
77.5°	219.1	223.9	230.2	231.7	230.2	230.2	211.3	200.2	176.6	164.0	160.8
80°	134.0	137.2	140.3	145.0	138.7	134.0	116.7	105.6	94.6	86.7	85.1
82.5°	86.7	89.9	91.4	94.6	91.4	85.1	70.9	64.6	56.8	50.4	48.9
85°	48.9	50.4	53.6	53.6	48.9	44.1	36.3	31.5	26.8	23.6	23.6
87.5°	17.3	17.3	17.3	18.9	15.8	14.2	9.5	6.3	4.7	4.7	4.7
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)