

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: P642973

Luminaire Tested: GWS-SA6E-722-U-AFL-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P642973
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-SAGE-722-U-AFL-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (96) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29913.5 lumens
Efficiency: N/A
Efficacy: 92.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

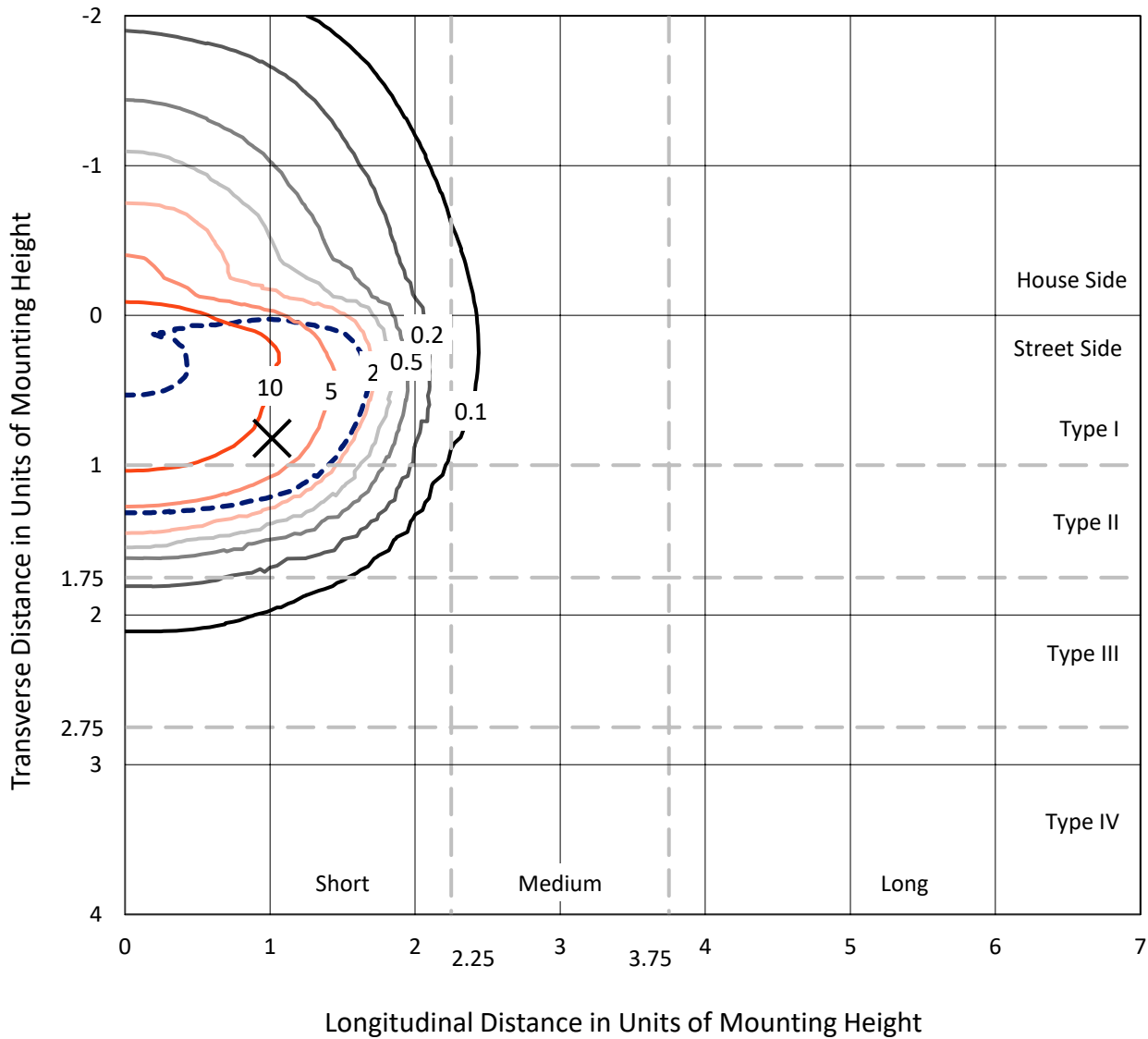
Input Watts (W): 323.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

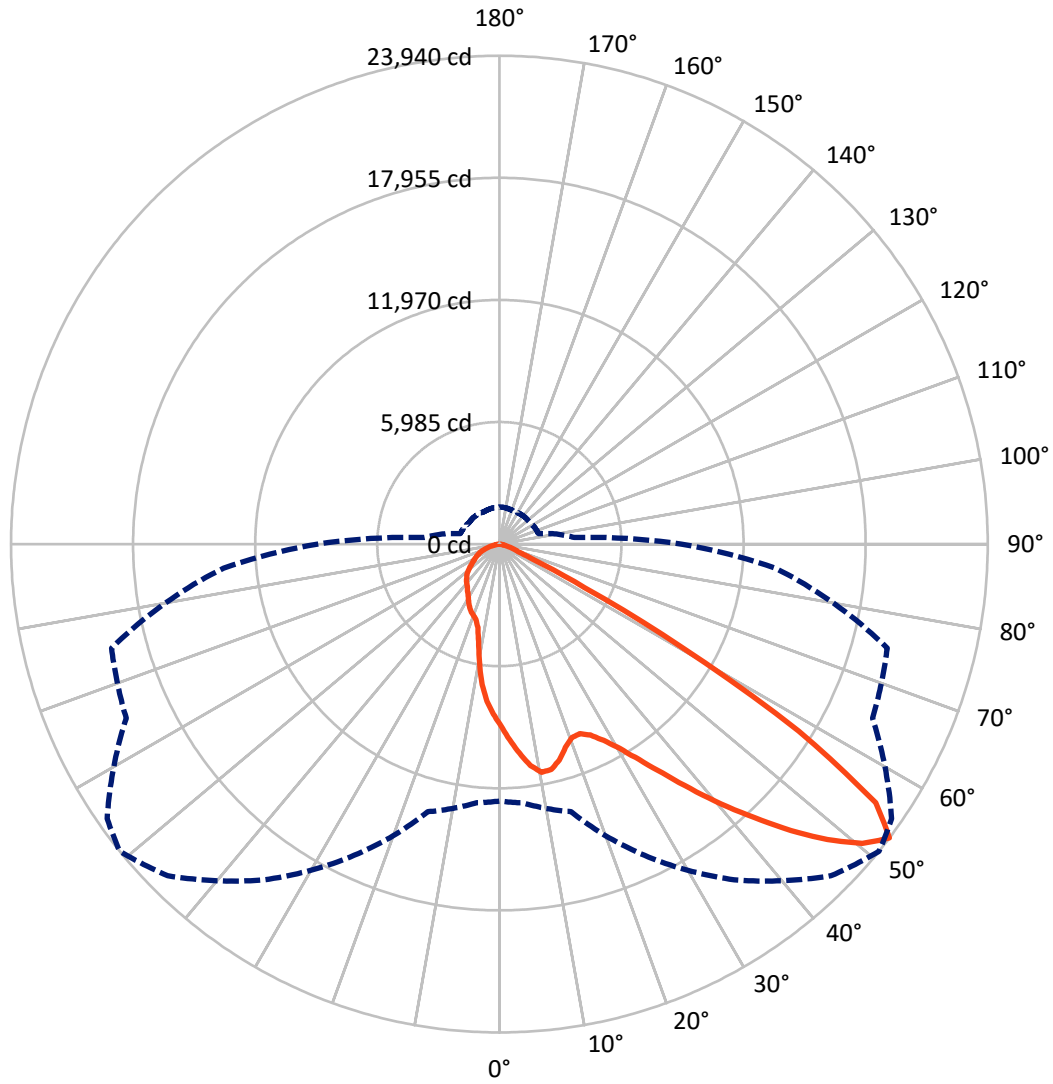
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.4 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	5828.4	0.0	5828.4
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	24085.1	0.0	24085.1
	% Fixture	80.5	0.0	80.5
Total	Lumens	29913.5	0.0	29913.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	831.1	2.8
10°-20°	2159.6	7.2
20°-30°	3511.3	11.7
30°-40°	5564.6	18.6
40°-50°	8392.7	28.1
50°-60°	7260.3	24.3
60°-70°	1646.0	5.5
70°-80°	485.3	1.6
80°-90°	62.5	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°	29913.5	100.0
0°-180°	29913.5	100.0

Coefficient of Utilization



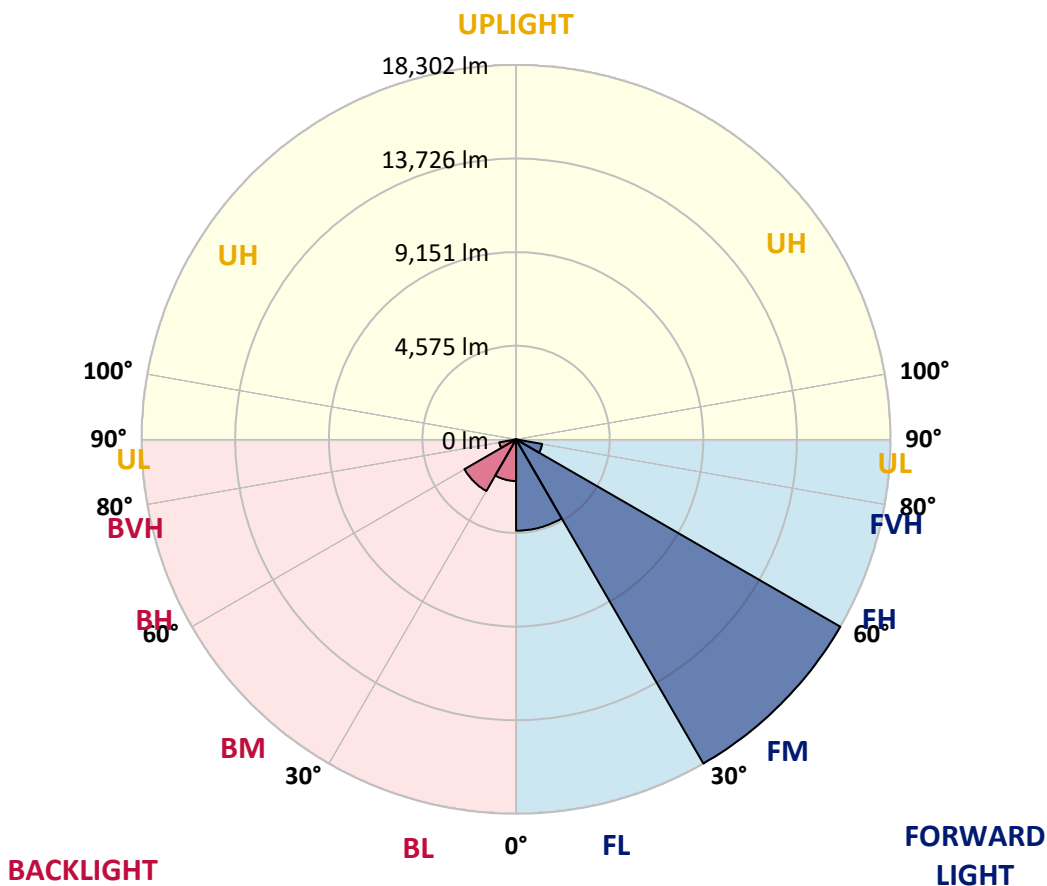
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4464.7	14.9			
FM (30°-60°)	18301.5	61.2			
FH (60°-80°)	1295.4	4.3			G1/1800
FVH (80°-90°)	23.6	0.1			G1/100
BL (0°-30°)	2037.4	6.8	B3/2500		
BM (30°-60°)	2916.1	9.7	B3/5000		
BH (60°-80°)	835.9	2.8	B2/1000		G2/1000
BVH (80°-90°)	39.0	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°	8906.7	8906.7	8906.7	8906.7	8906.7	8906.7	8906.7	8906.7	8906.7	8906.7	8906.7
2.5°	9925.5	9982.3	9894.8	9861.7	9807.3	9712.8	9604.1	9573.3	9339.3	9185.7	9013.1
5°	10923.0	10953.8	10882.9	10812.0	10677.2	10509.4	10299.0	10254.1	9828.6	9476.4	9110.0
7.5°	11145.2	11133.4	11194.9	11235.1	11218.5	11152.3	10965.6	10878.1	10369.9	9812.1	9270.8
10°	10265.9	10199.7	10426.7	10696.1	11020.0	11393.4	11372.2	11365.1	10923.0	10263.6	9476.4
12.5°	9100.6	9067.5	9251.9	9589.9	10202.1	11029.4	11339.1	11580.2	11421.8	10693.8	9705.7
15°	8434.0	8422.2	8547.4	8790.9	9277.9	10322.6	10984.5	11462.0	11849.7	11154.7	9949.2
17.5°	8313.4	8320.5	8363.1	8502.5	8852.4	9712.8	10478.7	11145.2	12182.9	11660.6	10254.1
20°	8665.6	8712.9	8639.6	8660.9	8850.0	9493.0	10133.5	10826.1	12395.7	12168.8	10582.7
22.5°	9448.0	9431.5	9270.8	9176.2	9178.6	9627.7	10095.7	10677.2	12535.2	12662.8	10880.5
25°	10334.5	10315.6	10124.1	9913.7	9781.3	9994.1	10367.6	10835.6	12660.4	13114.3	11119.2
27.5°	11381.6	11322.5	11109.8	10840.3	10547.2	10639.4	10892.3	11263.4	12854.3	13558.7	11277.6
30°	12395.7	12464.2	12159.3	11840.2	11530.5	11473.8	11620.4	11956.0	13249.0	14078.7	11466.7
32.5°	13740.7	13717.0	13379.0	12963.0	12521.0	12478.4	12594.2	12901.5	13958.1	14797.3	11755.1
35°	15369.3	15374.1	14894.2	14331.6	13702.9	13589.4	13783.2	14081.1	15014.8	15771.2	12211.3
37.5°	17061.8	17054.7	16636.3	15998.1	15140.0	14979.3	15201.5	15423.7	16336.1	17097.3	12920.4
40°	18248.4	18295.7	18099.5	17763.8	16950.7	16558.3	16754.5	16908.2	17773.3	18657.4	13854.1
42.5°	18922.1	18993.0	19035.6	19236.5	18808.6	18390.2	18319.3	18399.7	19056.8	20106.4	14731.1
45°	19066.3	19160.8	19470.5	20215.1	20380.6	20262.4	20030.7	19836.9	20014.2	21134.6	15305.5
47.5°	18430.4	18595.9	19257.8	20560.2	21527.0	21898.1	21640.5	21345.0	20567.3	21399.3	15246.4
50°	15910.6	16104.5	17596.0	19855.8	21690.1	23042.2	23065.8	22628.5	20501.1	20635.8	14504.2
52.5°	12596.6	12729.0	13582.3	16832.5	20089.8	22994.9	23940.4	23472.4	20182.0	19680.9	13575.2
55°	7528.7	7741.4	8538.0	11105.1	15650.6	20380.6	22394.5	22621.4	20026.0	18879.5	12941.7
57.5°	2541.1	2645.1	3406.2	4904.9	9223.5	14922.6	17302.9	18224.8	18179.9	17655.1	11705.5
60°	1210.3	1233.9	1387.5	1860.3	3692.2	7798.1	10242.3	11306.0	12275.1	12372.1	7282.8
62.5°	921.9	936.1	1014.1	1115.7	1484.5	3285.7	4694.5	5507.6	5883.5	5049.0	2652.2
65°	770.6	782.4	841.5	905.3	1009.3	1423.0	1801.2	2077.8	1872.1	1458.5	1264.6
67.5°	642.9	652.4	697.3	765.9	836.8	952.6	999.9	1028.2	1077.9	1210.3	1163.0
70°	503.5	512.9	560.2	619.3	687.9	716.2	761.1	789.5	888.8	1059.0	1054.2
72.5°	387.7	399.5	425.5	463.3	520.0	548.4	598.0	631.1	687.9	825.0	881.7
75°	283.7	290.7	314.4	326.2	333.3	326.2	375.8	413.7	489.3	541.3	555.5
77.5°	115.8	130.0	125.3	125.3	148.9	179.6	205.6	229.3	281.3	312.0	314.4
80°	47.3	52.0	61.5	68.5	82.7	106.4	122.9	132.4	156.0	174.9	189.1
82.5°	28.4	30.7	35.5	37.8	47.3	61.5	70.9	78.0	96.9	115.8	122.9
85°	14.2	14.2	16.5	18.9	23.6	28.4	33.1	37.8	49.6	61.5	68.5
87.5°	2.4	2.4	2.4	4.7	7.1	9.5	11.8	14.2	16.5	18.9	23.6
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°	8906.7	8906.7	8906.7	8906.7	8906.7	8906.7	8906.7	8906.7	8906.7	8906.7	8906.7
2.5°	8911.5	8783.8	8634.9	8516.7	8379.6	8278.0	8133.8	8044.0	7958.9	7888.0	7835.9
5°	8920.9	8705.8	8396.2	8122.0	7838.3	7568.8	7292.3	7067.7	6866.8	6699.0	6684.8
7.5°	8975.3	8665.6	8181.1	7701.2	7148.1	6613.9	6079.7	5644.7	5313.8	5141.2	5105.8
10°	9067.5	8660.9	7961.2	7195.4	6252.2	5391.8	4758.3	4427.4	4235.9	4167.4	4143.7
12.5°	9164.4	8649.1	7679.9	6481.5	5172.0	4417.9	4070.4	4030.3	4065.7	4070.4	4068.1
15°	9282.6	8642.0	7325.4	5644.7	4382.5	3966.4	3990.1	4075.2	4157.9	4176.8	4176.8
17.5°	9426.8	8625.5	6843.2	4826.8	3888.4	3879.0	4004.3	4117.7	4195.7	4209.9	4209.9
20°	9578.1	8582.9	6249.8	4160.3	3687.5	3824.6	3959.3	4046.8	4101.2	4120.1	4122.4
22.5°	9682.1	8469.4	5566.7	3666.2	3562.2	3720.6	3817.5	3907.3	3907.3	3860.1	3845.9
25°	9703.3	8226.0	4826.8	3328.2	3413.3	3559.9	3659.1	3607.1	3510.2	3472.4	3470.0
27.5°	9625.3	7871.4	4096.4	3087.1	3233.7	3380.2	3363.7	3288.0	3245.5	3207.7	3221.8
30°	9530.8	7445.9	3462.9	2888.5	3025.6	3169.8	3113.1	3087.1	3056.4	3013.8	3023.3
32.5°	9467.0	6970.8	2976.0	2734.9	2886.2	2909.8	2950.0	2947.6	2919.3	2838.9	2834.2
35°	9485.9	6491.0	2649.8	2609.6	2770.4	2760.9	2836.5	2822.4	2626.2	2515.1	2508.0
37.5°	9637.2	6030.0	2458.3	2510.3	2586.0	2645.1	2711.3	2541.1	2472.5	2401.6	2406.3
40°	9925.5	5602.2	2354.3	2456.0	2474.9	2562.3	2408.7	2406.3	2375.6	2311.8	2309.4
42.5°	10251.7	5240.5	2283.4	2430.0	2404.0	2420.5	2257.4	2276.3	2274.0	2233.8	2222.0
45°	10450.3	4907.2	2226.7	2333.1	2340.1	2174.7	2125.0	2146.3	2158.1	2136.9	2134.5
47.5°	10244.6	4524.3	2167.6	2184.1	2245.6	2063.6	2002.1	2004.5	2025.8	2028.1	2018.7
50°	9667.9	4096.4	2096.7	2056.5	2016.3	1947.8	1891.0	1879.2	1900.5	1921.8	1928.8
52.5°	8923.3	3687.5	1978.5	1917.0	1822.5	1822.5	1796.5	1758.7	1787.0	1815.4	1824.8
55°	8377.3	3384.9	1810.7	1742.1	1638.1	1673.6	1668.8	1635.7	1673.6	1694.8	1701.9
57.5°	7259.2	2720.7	1593.2	1571.9	1484.5	1527.0	1536.5	1493.9	1475.0	1479.7	1486.8
60°	4309.2	1756.3	1437.2	1434.8	1356.8	1406.5	1434.8	1392.3	1335.5	1342.6	1352.1
62.5°	1933.6	1342.6	1241.0	1231.5	1229.2	1293.0	1323.7	1283.5	1203.2	1210.3	1219.7
65°	1217.3	1160.6	1077.9	1077.9	1115.7	1170.1	1193.7	1160.6	1068.4	1056.6	1066.1
67.5°	1129.9	1080.2	995.2	978.6	997.5	1042.4	1044.8	981.0	926.6	917.1	917.1
70°	1014.1	976.2	893.5	860.4	853.3	851.0	843.9	827.3	791.9	782.4	787.1
72.5°	839.1	813.1	761.1	725.7	706.8	704.4	676.0	661.9	631.1	626.4	624.0
75°	555.5	562.6	562.6	557.9	541.3	534.2	503.5	489.3	453.8	439.7	437.3
77.5°	328.6	335.7	345.1	347.5	345.1	345.1	316.7	300.2	264.7	245.8	241.1
80°	200.9	205.6	210.4	217.5	208.0	200.9	174.9	158.4	141.8	130.0	127.6
82.5°	130.0	134.7	137.1	141.8	137.1	127.6	106.4	96.9	85.1	75.6	73.3
85°	73.3	75.6	80.4	80.4	73.3	66.2	54.4	47.3	40.2	35.5	35.5
87.5°	26.0	26.0	26.0	28.4	23.6	21.3	14.2	9.5	7.1	7.1	7.1
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)