

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: P637059

Luminaire Tested: GWS-SA4C-722-U-T2-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637059
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-21)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4C-722-U-T2-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSALLED GLARE SHIELD, WH
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11921 lumens
Efficiency: N/A
Efficacy: 92.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

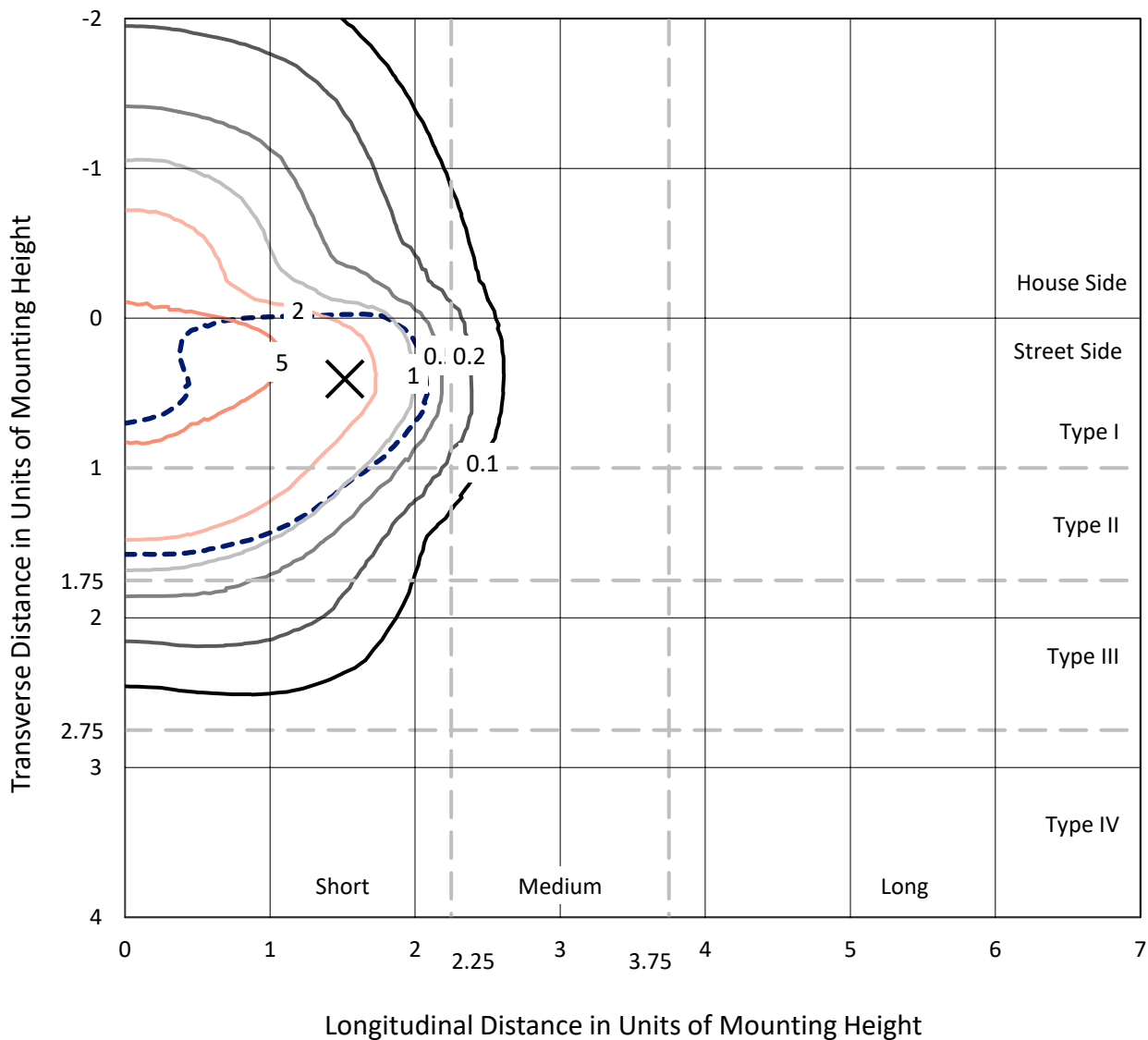
Input Watts (W): 128.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

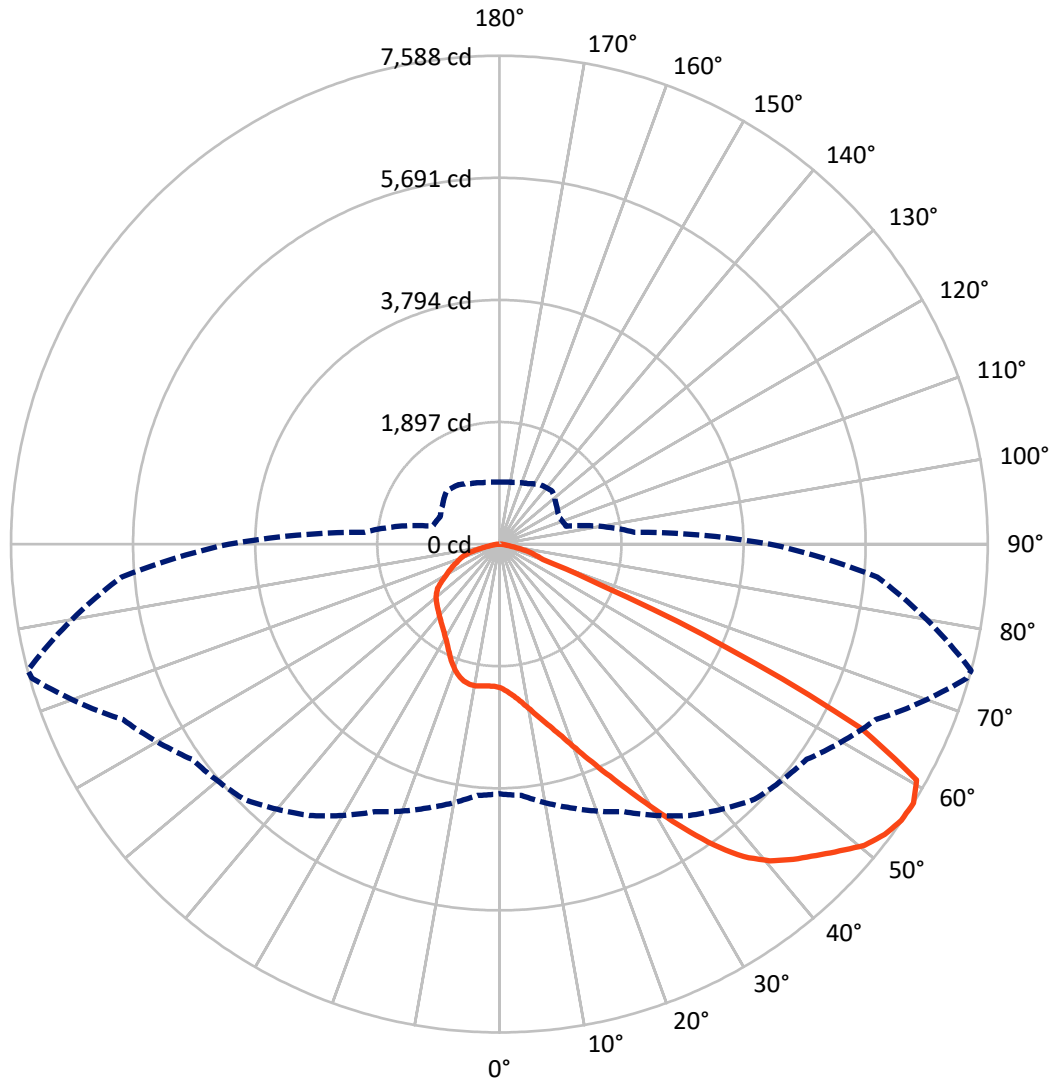
✕ Max cd
 - - - 1/2 Max cd



Based on 20 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 75-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3224.9	0.0	3224.9
	% Fixture	27.1	0.0	27.1
Street Side	Lumens	8696.1	0.0	8696.1
	% Fixture	72.9	0.0	72.9
Total	Lumens	11921.0	0.0	11921.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	223.4	1.9
10°-20°	711.3	6.0
20°-30°	1261.4	10.6
30°-40°	1931.0	16.2
40°-50°	2688.8	22.6
50°-60°	3080.9	25.8
60°-70°	1583.0	13.3
70°-80°	398.5	3.3
80°-90°	42.6	0.4
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°	11921.0	100.0
0°-180°	11921.0	100.0

Coefficient of Utilization



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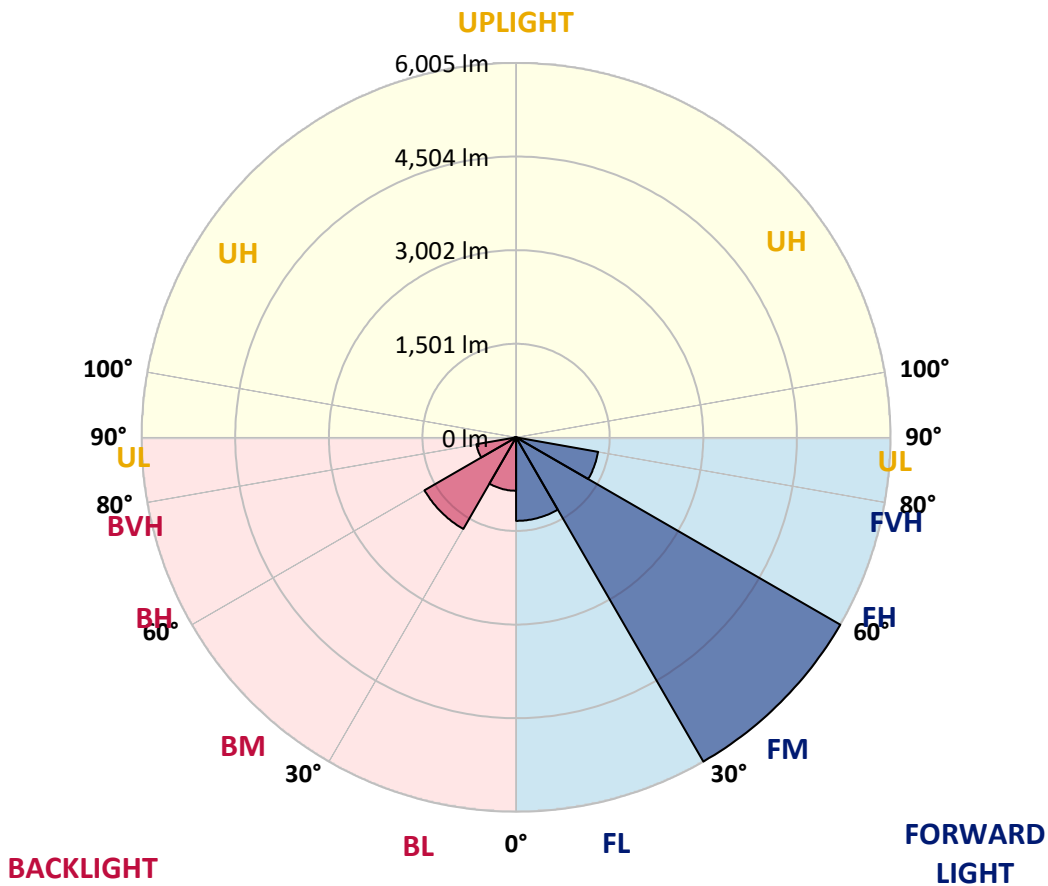
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1339.4	11.2			
FM (30°-60°)	6004.7	50.4			
FH (60°-80°)	1336.2	11.2			G1/1800
FVH (80°-90°)	15.8	0.1			G1/100
BL (0°-30°)	856.7	7.2	B2/1000		
BM (30°-60°)	1696.0	14.2	B2/2500		
BH (60°-80°)	645.3	5.4	B2/1000		G2/1000
BVH (80°-90°)	26.8	0.2			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°	74°	75°	85°
0°	2232.5	2232.5	2232.5	2232.5	2232.5	2232.5	2232.5	2232.5	2232.5	2232.5	2232.5
2.5°	2398.6	2404.7	2398.6	2408.8	2388.3	2379.1	2356.5	2322.7	2296.1	2292.0	2262.2
5°	2585.1	2598.5	2590.3	2586.2	2558.5	2538.0	2504.2	2436.5	2381.1	2372.9	2314.5
7.5°	2705.1	2714.3	2714.3	2717.4	2707.1	2683.5	2647.7	2567.7	2489.8	2477.5	2389.3
10°	2745.0	2752.2	2765.5	2791.2	2811.7	2818.8	2795.3	2718.4	2623.1	2610.8	2487.7
12.5°	2754.3	2762.5	2783.0	2830.1	2886.5	2937.7	2941.8	2885.5	2778.9	2765.5	2601.5
15°	2771.7	2779.9	2807.6	2866.0	2949.0	3047.4	3107.9	3068.9	2951.1	2936.7	2730.7
17.5°	2769.6	2778.9	2819.9	2897.8	3009.5	3152.0	3268.8	3285.2	3163.2	3138.6	2877.3
20°	2764.5	2772.7	2816.8	2912.1	3050.5	3246.3	3457.4	3542.5	3411.3	3388.8	3048.4
22.5°	2805.5	2814.7	2848.6	2927.5	3072.0	3319.0	3631.7	3836.7	3705.5	3673.7	3245.2
25°	2897.8	2911.1	2931.6	2985.9	3111.0	3383.6	3810.0	4169.8	4035.5	3997.6	3459.5
27.5°	3040.2	3056.6	3085.3	3111.0	3198.1	3465.6	3987.4	4542.9	4408.7	4368.7	3686.0
30°	3214.5	3236.0	3272.9	3290.3	3349.8	3586.6	4180.1	4927.3	4849.4	4794.1	3941.2
32.5°	3455.4	3485.1	3520.0	3525.1	3561.0	3770.1	4370.7	5308.6	5307.6	5268.7	4231.3
35°	3769.0	3800.8	3808.0	3815.2	3832.6	4022.2	4601.4	5656.1	5790.4	5745.3	4547.0
37.5°	4111.4	4157.5	4168.8	4137.0	4161.6	4325.6	4860.7	5934.9	6210.7	6162.5	4852.5
40°	4477.3	4495.8	4526.5	4476.3	4507.1	4673.1	5114.9	6113.3	6524.3	6473.1	5093.4
42.5°	4739.7	4773.6	4819.7	4801.2	4818.7	4970.4	5293.3	6199.4	6747.8	6696.5	5266.6
45°	5024.7	5035.0	5064.7	5060.6	5070.8	5212.3	5421.4	6237.3	6947.7	6901.5	5414.2
47.5°	5272.8	5288.1	5307.6	5285.1	5262.5	5354.8	5525.9	6270.1	7178.3	7122.9	5569.0
50°	5511.6	5524.9	5548.5	5482.9	5398.8	5422.4	5577.2	6315.2	7394.6	7355.6	5691.0
52.5°	5555.7	5570.0	5680.7	5694.0	5586.4	5503.4	5667.4	6414.6	7521.7	7497.1	5735.0
55°	5001.1	5026.8	5247.1	5500.3	5765.8	5739.1	5811.9	6466.9	7571.9	7578.1	5814.0
57.5°	3881.8	3918.7	4240.6	4588.0	5146.7	5609.0	5830.4	6453.6	7554.5	7588.3	5895.0
60°	2546.2	2567.7	2949.0	3338.5	3917.7	4557.3	5218.4	6213.7	7399.7	7447.9	5874.5
62.5°	1537.5	1562.1	1868.6	2163.8	2505.2	2932.6	3539.4	4994.0	6202.5	6310.1	4704.9
65°	1073.2	1106.0	1374.6	1617.5	1735.4	1647.2	1792.8	2789.1	3864.4	3909.5	2875.2
67.5°	778.0	800.5	1020.9	1310.0	1440.2	1163.4	886.7	1235.2	1683.1	1699.5	1186.0
70°	509.4	535.1	734.9	997.4	1175.7	943.0	663.2	668.3	708.3	716.5	688.8
72.5°	279.8	295.2	454.1	662.2	695.0	563.8	517.6	555.6	583.2	583.2	590.4
75°	144.5	157.9	185.5	218.3	263.4	308.5	373.1	429.5	459.2	461.3	458.2
77.5°	73.8	78.9	99.4	107.6	117.9	137.4	178.4	228.6	255.2	265.5	263.4
80°	34.9	36.9	42.0	49.2	60.5	76.9	96.4	114.8	131.2	133.3	144.5
82.5°	18.5	20.5	22.6	26.7	32.8	41.0	56.4	67.7	77.9	80.0	89.2
85°	7.2	8.2	9.2	10.3	14.4	17.4	23.6	31.8	39.0	39.0	46.1
87.5°	0.0	0.0	0.0	0.0	1.0	2.1	4.1	5.1	7.2	7.2	12.3
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°	2232.5	2232.5	2232.5	2232.5	2232.5	2232.5	2232.5	2232.5	2232.5	2232.5	2232.5
2.5°	2255.1	2225.3	2212.0	2190.5	2173.1	2153.6	2138.2	2126.9	2119.8	2115.7	2111.6
5°	2292.0	2246.9	2211.0	2167.9	2138.2	2109.5	2085.9	2069.5	2061.3	2055.2	2051.1
7.5°	2349.4	2288.9	2221.2	2154.6	2102.3	2056.2	2026.5	2009.1	1997.8	1993.7	1990.6
10°	2428.3	2344.2	2232.5	2126.9	2049.0	1998.8	1978.3	1970.1	1971.1	1969.1	1968.1
12.5°	2517.5	2402.7	2229.4	2077.7	1991.6	1961.9	1962.9	1976.3	1991.6	1995.7	1996.8
15°	2613.8	2460.1	2199.7	2014.2	1946.5	1949.6	1976.3	2008.0	2036.7	2048.0	2050.1
17.5°	2718.4	2508.3	2145.4	1944.5	1909.6	1942.4	1991.6	2043.9	2085.9	2104.4	2109.5
20°	2835.2	2549.3	2068.5	1875.8	1874.8	1929.1	2000.9	2069.5	2122.8	2147.4	2151.5
22.5°	2959.3	2574.9	1974.2	1812.3	1838.9	1911.7	1993.7	2065.4	2121.8	2146.4	2151.5
25°	3084.3	2583.1	1870.7	1753.8	1802.0	1884.0	1958.8	2016.2	2069.5	2091.1	2095.2
27.5°	3201.2	2559.5	1772.3	1703.6	1768.2	1843.0	1893.2	1924.0	1960.9	1977.3	1980.4
30°	3320.1	2512.4	1689.3	1663.6	1730.3	1786.6	1809.2	1811.2	1825.6	1825.6	1827.6
32.5°	3440.0	2442.6	1616.5	1624.7	1683.1	1720.0	1723.1	1699.5	1682.1	1653.4	1652.3
35°	3578.4	2371.9	1557.0	1580.6	1627.7	1650.3	1641.1	1596.0	1553.9	1506.8	1504.7
37.5°	3706.5	2299.1	1506.8	1535.5	1565.2	1581.6	1560.1	1505.8	1470.9	1422.7	1415.6
40°	3812.1	2233.5	1458.6	1488.3	1502.7	1517.0	1482.2	1438.1	1443.2	1416.6	1415.6
42.5°	3873.6	2170.0	1413.5	1436.1	1445.3	1455.5	1424.8	1392.0	1419.7	1399.2	1400.2
45°	3918.7	2114.6	1372.5	1380.7	1403.3	1418.6	1389.9	1353.0	1359.2	1280.3	1261.8
47.5°	3969.9	2083.9	1333.6	1325.4	1365.3	1392.0	1347.9	1294.6	1257.7	1179.8	1172.6
50°	4024.3	2072.6	1292.6	1270.0	1318.2	1343.8	1292.6	1225.9	1177.8	1135.7	1131.6
52.5°	4042.7	2071.6	1241.3	1203.4	1251.6	1287.4	1244.4	1176.7	1119.3	1078.3	1076.3
55°	4115.5	2101.3	1175.7	1112.2	1157.3	1231.1	1199.3	1101.9	1055.8	1037.3	1035.3
57.5°	4200.6	2106.4	1072.2	1012.7	1075.3	1162.4	1122.4	1038.4	988.1	965.6	963.5
60°	4165.7	1980.4	961.5	936.9	1005.6	1097.8	1060.9	988.1	929.7	908.2	906.1
62.5°	3174.5	1398.1	880.5	871.3	930.7	1004.5	997.4	921.5	866.2	850.8	848.7
65°	1909.6	982.0	802.6	801.6	843.6	914.3	923.6	862.1	803.6	782.1	782.1
67.5°	944.1	751.3	714.4	709.3	736.0	786.2	825.1	774.9	725.7	705.2	702.1
70°	667.3	662.2	649.9	635.5	640.6	661.1	677.5	635.5	583.2	562.7	558.6
72.5°	577.1	578.1	569.9	558.6	554.5	540.2	525.8	495.1	463.3	441.8	443.8
75°	447.9	450.0	455.1	451.0	439.7	424.4	409.0	370.0	344.4	323.9	319.8
77.5°	261.4	271.6	288.0	283.9	286.0	264.5	258.3	220.4	196.8	182.5	179.4
80°	147.6	153.8	160.9	166.1	159.9	150.7	137.4	116.9	109.7	99.4	97.4
82.5°	89.2	95.3	98.4	102.5	100.5	88.2	77.9	64.6	58.4	53.3	52.3
85°	45.1	49.2	52.3	54.3	48.2	40.0	35.9	28.7	24.6	21.5	21.5
87.5°	11.3	12.3	14.4	12.3	11.3	5.1	4.1	1.0	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)