

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: P633763

Luminaire Tested: GWS-SA2F-735-U-T2R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633763
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-13)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2F-735-U-T2R-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14081.9 lumens
Efficiency: N/A
Efficacy: 113.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

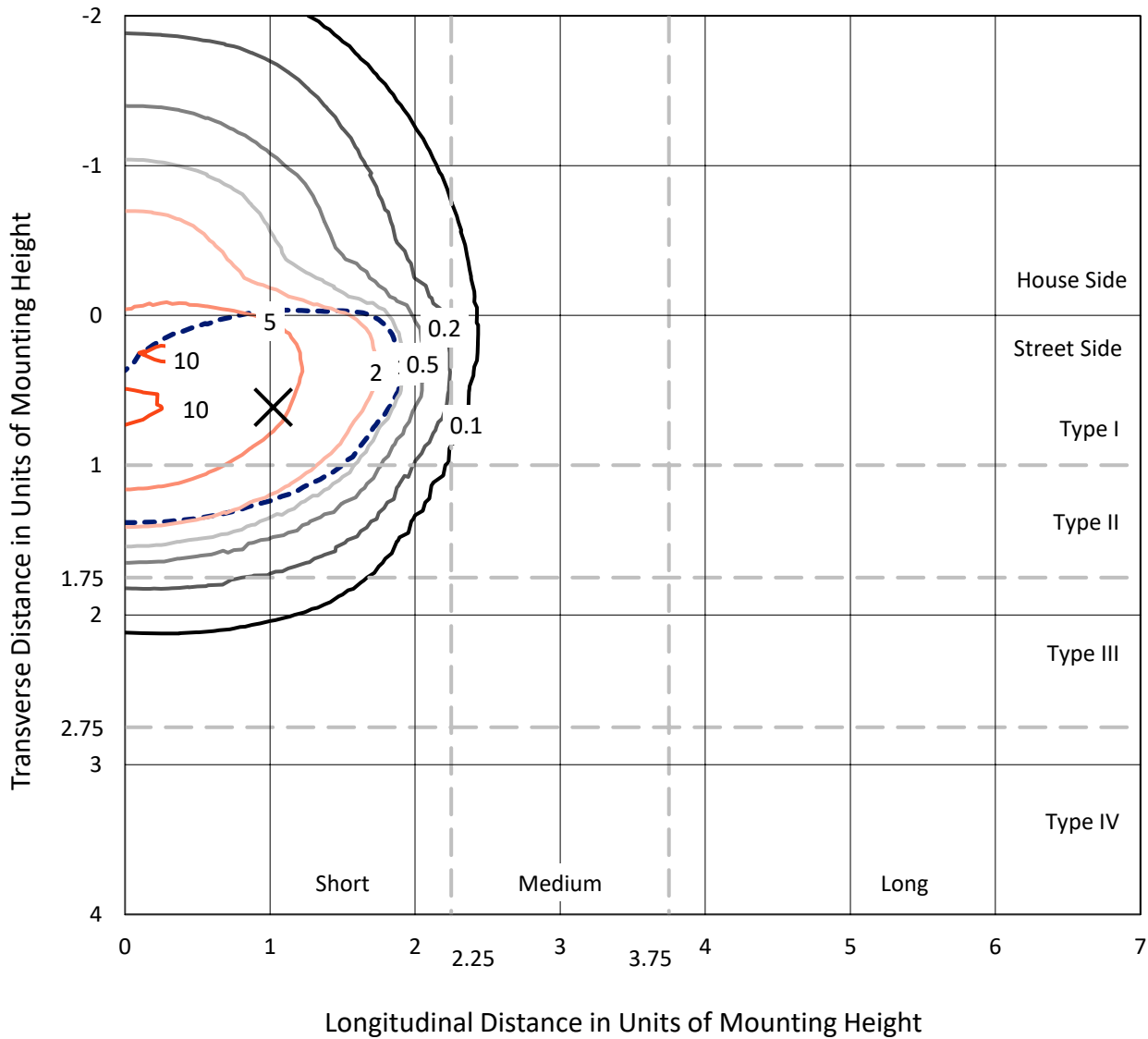
Input Watts (W): 124.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P633763
 CATALOG NUMBER: GWS-SA2F-735-U-T2R-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

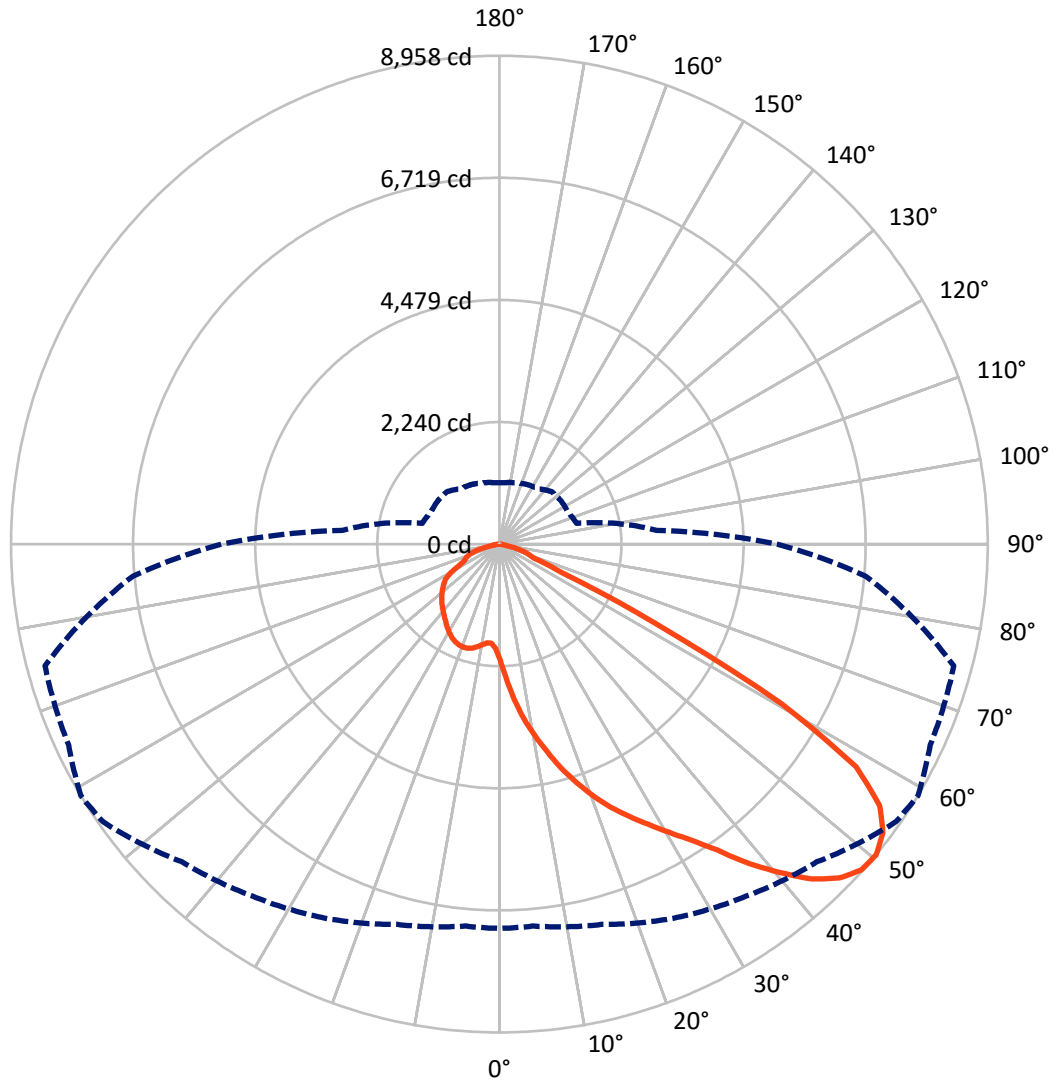
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 10.5 fc
 Type II - Short - N/A

REPORT NUMBER: P633763
CATALOG NUMBER: GWS-SA2F-735-U-T2R-W-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

REPORT NUMBER: P633763

CATALOG NUMBER: GWS-SA2F-735-U-T2R-W-GRSWH

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3239.1	0.0	3239.1
	% Fixture	23.0	0.0	23.0
Street Side	Lumens	10842.8	0.0	10842.8
	% Fixture	77.0	0.0	77.0
Total	Lumens	14081.9	0.0	14081.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	239.3	1.7
10°-20°	868.9	6.2
20°-30°	1645.3	11.7
30°-40°	2728.4	19.4
40°-50°	3727.1	26.5
50°-60°	3383.2	24.0
60°-70°	1126.6	8.0
70°-80°	328.6	2.3
80°-90°	34.5	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°	14081.9	100.0
0°-180°	14081.9	100.0

Coefficient of Utilization



REPORT NUMBER: P633763

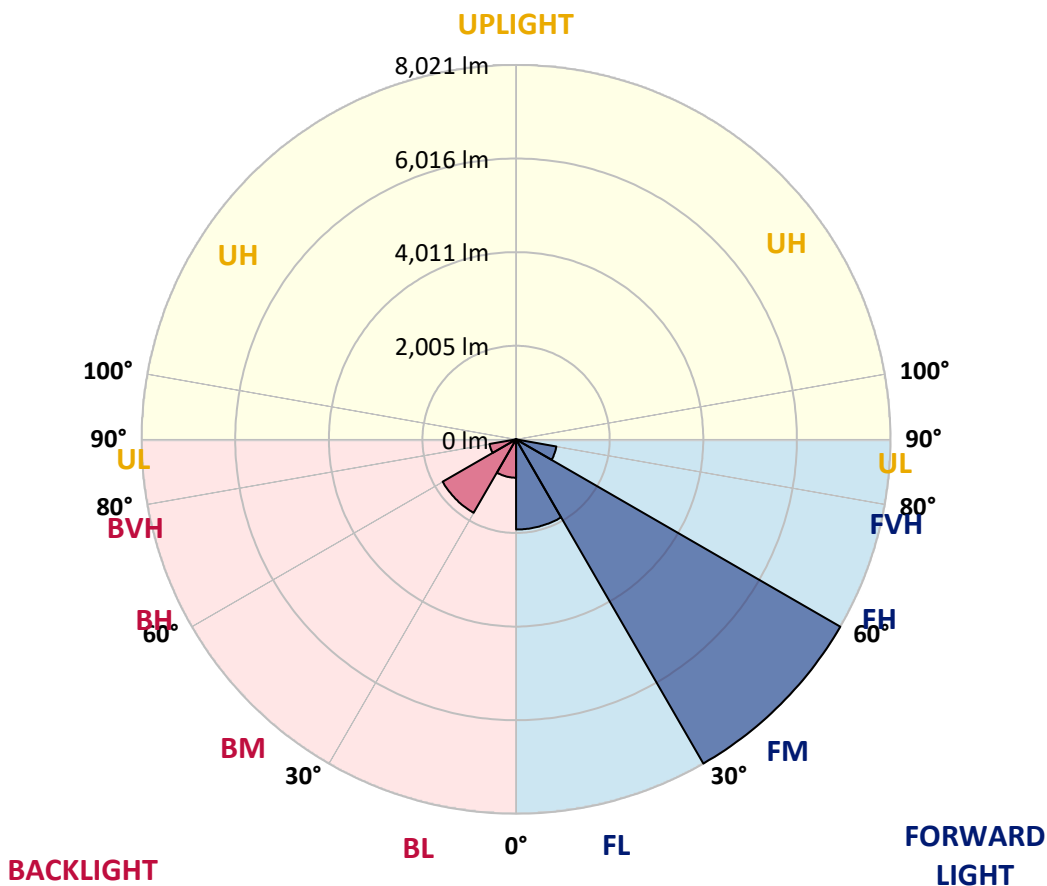
CATALOG NUMBER: GWS-SA2F-735-U-T2R-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1931.0	13.7			
FM (30°-60°)	8021.2	57.0			
FH (60°-80°)	877.1	6.2			G1/1800
FVH (80°-90°)	13.5	0.1			G1/100
BL (0°-30°)	822.5	5.8	B2/1000		
BM (30°-60°)	1817.5	12.9	B2/2500		
BH (60°-80°)	578.2	4.1	B2/1000		G2/1000
BVH (80°-90°)	21.0	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





REPORT NUMBER: P633763

CATALOG NUMBER: GWS-SA2F-735-U-T2R-W-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	2133.5	2133.5	2133.5	2133.5	2133.5	2133.5	2133.5	2133.5	2133.5	2133.5	2133.5
2.5°	2764.4	2785.0	2752.9	2755.2	2674.9	2638.2	2535.0	2474.2	2434.0	2321.6	2219.5
5°	3321.8	3297.8	3272.5	3257.6	3187.6	3089.0	2960.5	2858.4	2764.4	2544.2	2331.9
7.5°	3663.7	3651.1	3633.8	3624.7	3555.8	3452.6	3324.1	3237.0	3100.5	2802.2	2468.4
10°	3953.9	3939.0	3928.6	3935.5	3879.3	3812.8	3672.8	3573.1	3419.3	3075.2	2633.6
12.5°	4178.7	4186.7	4190.2	4226.9	4202.8	4162.6	4018.1	3912.6	3741.7	3363.1	2827.5
15°	4356.5	4354.2	4394.3	4464.3	4503.3	4478.1	4362.2	4273.9	4065.1	3646.5	3036.2
17.5°	4397.8	4400.1	4463.2	4585.9	4713.2	4775.2	4709.8	4604.2	4397.8	3926.3	3253.0
20°	4431.0	4435.6	4501.0	4641.0	4826.8	5000.0	5010.3	4934.6	4756.8	4229.2	3473.3
22.5°	4641.0	4651.3	4668.5	4756.8	4924.3	5143.4	5263.8	5247.7	5098.6	4546.9	3710.7
25°	5192.7	5161.7	5078.0	5052.7	5117.0	5294.8	5500.1	5531.1	5457.6	4896.7	3966.5
27.5°	5874.0	5840.8	5716.9	5586.1	5447.3	5509.3	5728.4	5821.3	5822.4	5282.2	4223.4
30°	6492.3	6465.9	6365.0	6178.0	5938.3	5848.8	6010.5	6135.6	6210.1	5727.2	4515.9
32.5°	7021.1	6997.0	6860.5	6707.9	6473.9	6293.8	6352.3	6472.8	6647.1	6303.0	4879.5
35°	7466.1	7442.0	7311.3	7157.6	6940.8	6833.0	6812.3	6894.9	7120.9	6904.1	5297.1
37.5°	7827.4	7803.4	7666.9	7522.3	7357.2	7364.0	7395.0	7435.2	7564.8	7547.6	5743.3
40°	8061.4	8036.2	7938.7	7835.5	7731.1	7813.7	7967.4	7919.2	7988.0	8067.2	6153.9
42.5°	8165.8	8133.7	8077.5	8054.6	8022.4	8150.9	8446.9	8398.7	8316.1	8413.6	6459.0
45°	8061.4	8033.9	8032.8	8102.7	8177.3	8342.5	8778.4	8739.4	8530.6	8581.1	6641.4
47.5°	7741.4	7717.3	7782.7	7966.2	8149.8	8390.6	8926.3	8933.2	8683.1	8651.0	6759.5
50°	7049.8	7033.7	7223.0	7570.5	7887.1	8240.4	8879.3	8958.4	8719.9	8629.2	6744.6
52.5°	5643.5	5718.0	6129.8	6710.2	7325.0	7976.6	8704.9	8808.2	8543.2	8485.9	6664.3
55°	3863.3	3897.7	4309.5	5157.1	6132.1	7405.3	8304.6	8464.1	8334.4	8461.8	6748.1
57.5°	2000.4	2028.0	2352.6	3105.1	4159.2	5852.2	7193.1	7716.2	7913.5	8583.4	7008.5
60°	821.3	844.2	978.4	1342.0	2097.9	3407.9	5176.6	5952.0	6415.4	7838.9	6223.9
62.5°	596.5	607.9	672.2	800.6	1098.9	1670.1	2929.6	3215.2	3540.9	4912.8	3951.6
65°	502.4	515.0	566.6	644.6	801.8	1024.3	1251.4	1258.3	1386.8	2001.6	1464.8
67.5°	421.0	432.4	478.3	544.8	648.1	727.2	672.2	673.3	671.0	726.1	702.0
70°	328.1	337.2	383.1	454.2	508.1	466.8	525.3	581.6	557.5	579.3	612.5
72.5°	239.7	250.1	290.2	344.1	330.3	332.6	425.6	482.9	469.1	493.2	524.2
75°	173.2	180.1	200.7	172.1	181.2	219.1	299.4	330.3	344.1	364.8	392.3
77.5°	56.2	56.2	63.1	79.1	98.6	121.6	152.6	165.2	185.8	208.8	228.3
80°	28.7	29.8	35.6	43.6	55.1	70.0	89.5	95.2	105.5	118.1	126.2
82.5°	13.8	14.9	17.2	21.8	28.7	36.7	49.3	55.1	61.9	70.0	75.7
85°	3.4	3.4	4.6	6.9	9.2	13.8	18.4	21.8	27.5	33.3	36.7
87.5°	0.0	0.0	0.0	0.0	0.0	1.1	3.4	4.6	5.7	6.9	9.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P633763

CATALOG NUMBER: GWS-SA2F-735-U-T2R-W-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2133.5	2133.5	2133.5	2133.5	2133.5	2133.5	2133.5	2133.5	2133.5	2133.5	2133.5
2.5°	2173.7	2109.4	2026.8	1956.9	1892.6	1843.3	1800.9	1780.2	1760.7	1747.0	1751.5
5°	2233.3	2123.2	1969.5	1862.8	1797.4	1764.2	1741.2	1729.7	1727.5	1718.3	1714.8
7.5°	2320.5	2163.3	1958.0	1850.2	1806.6	1789.4	1776.8	1769.9	1773.3	1764.2	1760.7
10°	2428.3	2229.9	1986.7	1891.5	1853.6	1841.0	1827.2	1818.1	1813.5	1799.7	1797.4
12.5°	2562.5	2312.4	2038.3	1944.2	1906.4	1884.6	1866.2	1850.2	1839.9	1822.7	1818.1
15°	2707.0	2404.2	2099.1	1995.9	1951.1	1919.0	1889.2	1865.1	1846.7	1823.8	1820.4
17.5°	2864.2	2500.6	2149.6	2031.4	1974.1	1931.6	1888.0	1852.5	1827.2	1797.4	1794.0
20°	3028.2	2598.1	2187.4	2048.6	1975.2	1917.9	1859.4	1812.3	1780.2	1750.4	1748.1
22.5°	3198.0	2687.5	2210.4	2044.0	1956.9	1885.7	1815.8	1763.0	1725.2	1689.6	1687.3
25°	3368.9	2773.6	2216.1	2025.7	1920.2	1837.6	1767.6	1705.7	1663.2	1623.1	1618.5
27.5°	3542.1	2845.8	2202.3	1989.0	1870.8	1781.4	1711.4	1650.6	1607.0	1566.9	1560.0
30°	3726.8	2907.8	2172.5	1940.8	1813.5	1721.7	1652.9	1607.0	1565.7	1525.6	1518.7
32.5°	3924.0	2961.7	2130.1	1882.3	1747.0	1662.1	1611.6	1570.3	1529.0	1493.5	1486.6
35°	4159.2	2997.2	2067.0	1806.6	1685.0	1618.5	1584.1	1535.9	1485.4	1446.4	1443.0
37.5°	4402.4	3024.8	1991.3	1734.3	1631.1	1593.2	1564.6	1499.2	1436.1	1389.1	1383.3
40°	4637.5	3047.7	1897.2	1666.7	1581.8	1574.9	1535.9	1454.5	1345.5	1292.7	1288.1
42.5°	4856.6	3054.6	1798.6	1594.4	1537.0	1533.6	1490.0	1363.8	1280.1	1246.8	1242.3
45°	5006.9	3048.9	1696.5	1526.7	1492.3	1474.0	1428.1	1298.5	1246.8	1217.0	1211.3
47.5°	5118.1	3019.0	1581.8	1455.6	1441.8	1416.6	1318.0	1257.2	1209.0	1179.2	1173.4
50°	5098.6	2895.1	1465.9	1386.8	1381.0	1359.3	1237.7	1205.5	1163.1	1131.0	1126.4
52.5°	4997.7	2660.0	1347.8	1311.1	1322.5	1280.1	1180.3	1143.6	1106.9	1070.2	1062.2
55°	5022.9	2490.2	1258.3	1237.7	1258.3	1162.0	1116.1	1077.1	1042.7	1007.1	1000.2
57.5°	5133.0	2322.8	1163.1	1158.5	1180.3	1071.3	1033.5	984.2	934.8	906.2	906.2
60°	4310.6	1693.0	995.6	1007.1	1056.4	997.9	964.7	914.2	860.3	835.1	835.1
62.5°	2548.7	1062.2	825.9	813.3	844.2	880.9	899.3	858.0	793.8	760.5	761.6
65°	1123.0	773.1	728.4	718.1	708.9	734.1	784.6	788.0	720.3	681.3	682.5
67.5°	691.7	699.7	681.3	673.3	665.3	660.7	656.1	658.4	640.1	604.5	603.3
70°	624.0	645.8	633.2	626.3	616.0	607.9	580.4	535.7	504.7	495.5	505.8
72.5°	536.8	566.6	559.8	556.3	543.7	524.2	487.5	443.9	407.2	384.3	388.8
75°	404.9	429.0	432.4	433.6	419.8	401.5	363.6	326.9	294.8	270.7	276.4
77.5°	232.9	246.6	250.1	253.5	243.2	236.3	211.1	184.7	167.5	142.2	149.1
80°	129.6	135.4	135.4	136.5	130.8	122.7	105.5	90.6	82.6	71.1	72.3
82.5°	78.0	80.3	81.4	82.6	79.1	71.1	58.5	48.2	43.6	37.9	36.7
85°	37.9	40.1	40.1	41.3	35.6	31.0	24.1	18.4	16.1	11.5	12.6
87.5°	9.2	10.3	10.3	9.2	8.0	5.7	3.4	1.1	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)