

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: P631347

Luminaire Tested: GWS-SA1F-740-U-T3-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631347
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-25)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1F-740-U-T3-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (16) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7190.7 lumens
Efficiency: N/A
Efficacy: 107.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

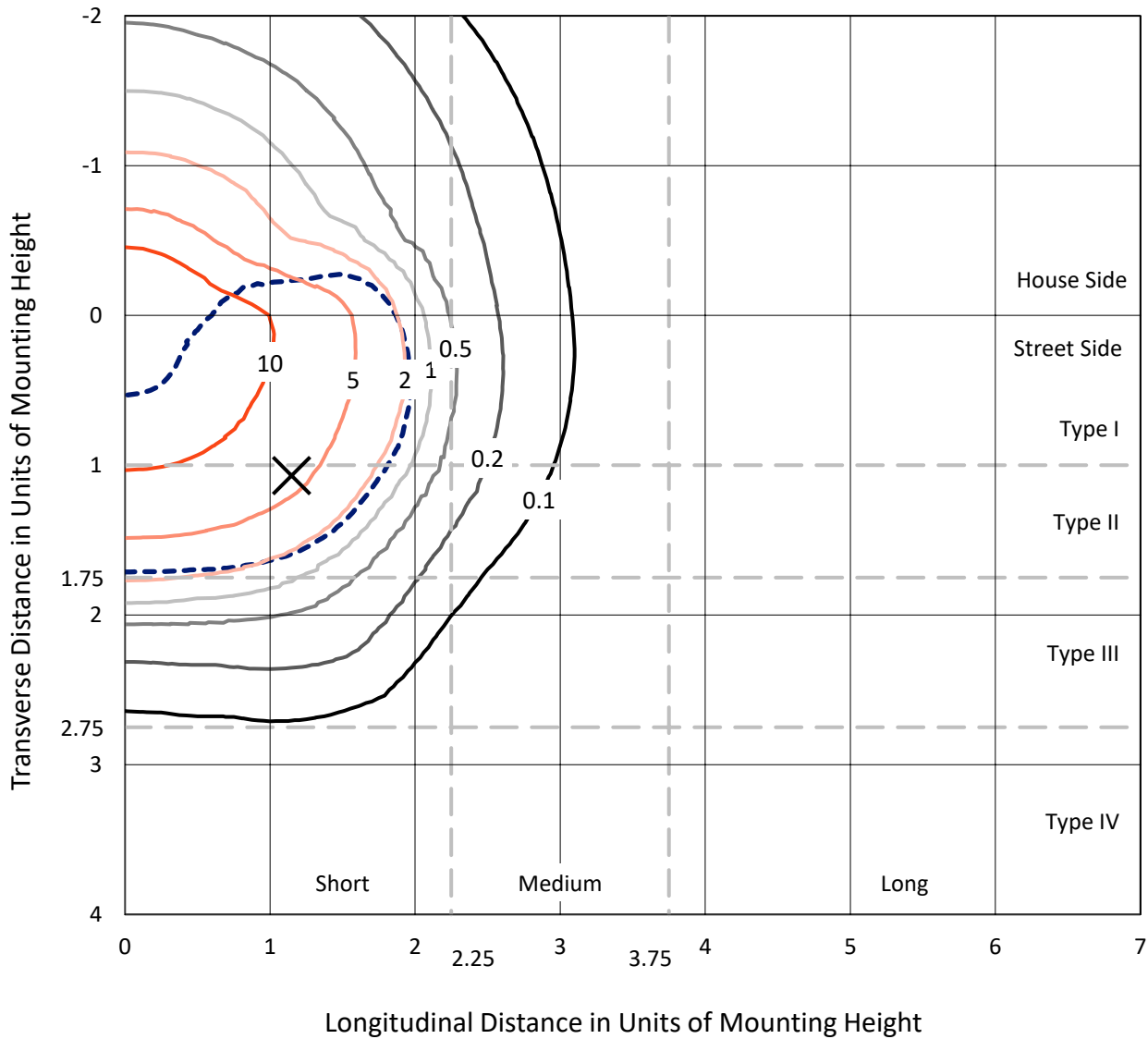
Input Watts (W): 67.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P631347
 CATALOG NUMBER: GWS-SA1F-740-U-T3-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

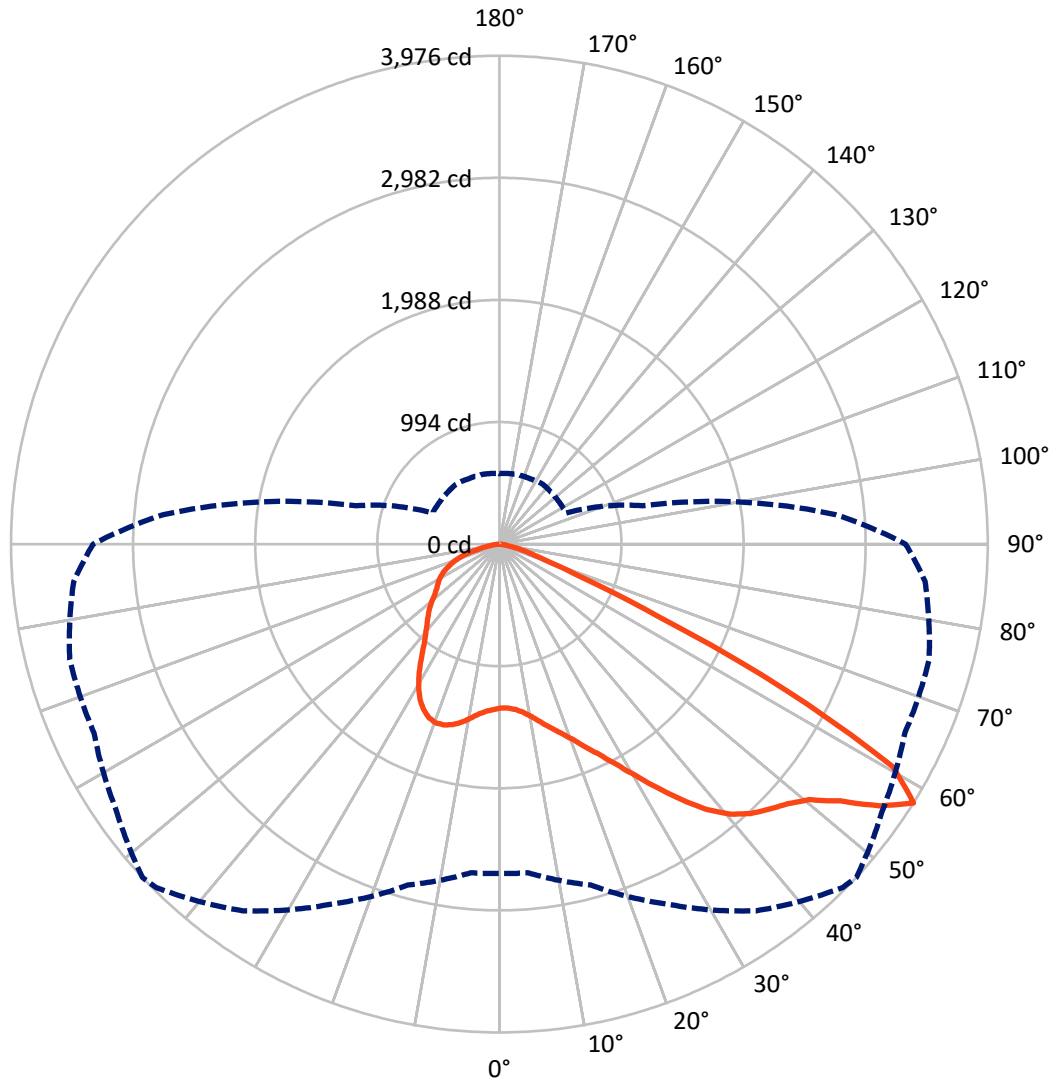
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.9 fc
 Type II - Short - N/A

REPORT NUMBER: P631347
CATALOG NUMBER: GWS-SA1F-740-U-T3-W-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

REPORT NUMBER: P631347

CATALOG NUMBER: GWS-SA1F-740-U-T3-W-GRSWH

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2275.8	0.0	2275.8
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	4914.9	0.0	4914.9
	% Fixture	68.4	0.0	68.4
Total	Lumens	7190.7	0.0	7190.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.5	1.8
10°-20°	432.6	6.0
20°-30°	778.9	10.8
30°-40°	1176.5	16.4
40°-50°	1584.3	22.0
50°-60°	1903.8	26.5
60°-70°	927.2	12.9
70°-80°	228.4	3.2
80°-90°	27.5	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°	7190.7	100.0
0°-180°	7190.7	100.0

Coefficient of Utilization



REPORT NUMBER: P631347

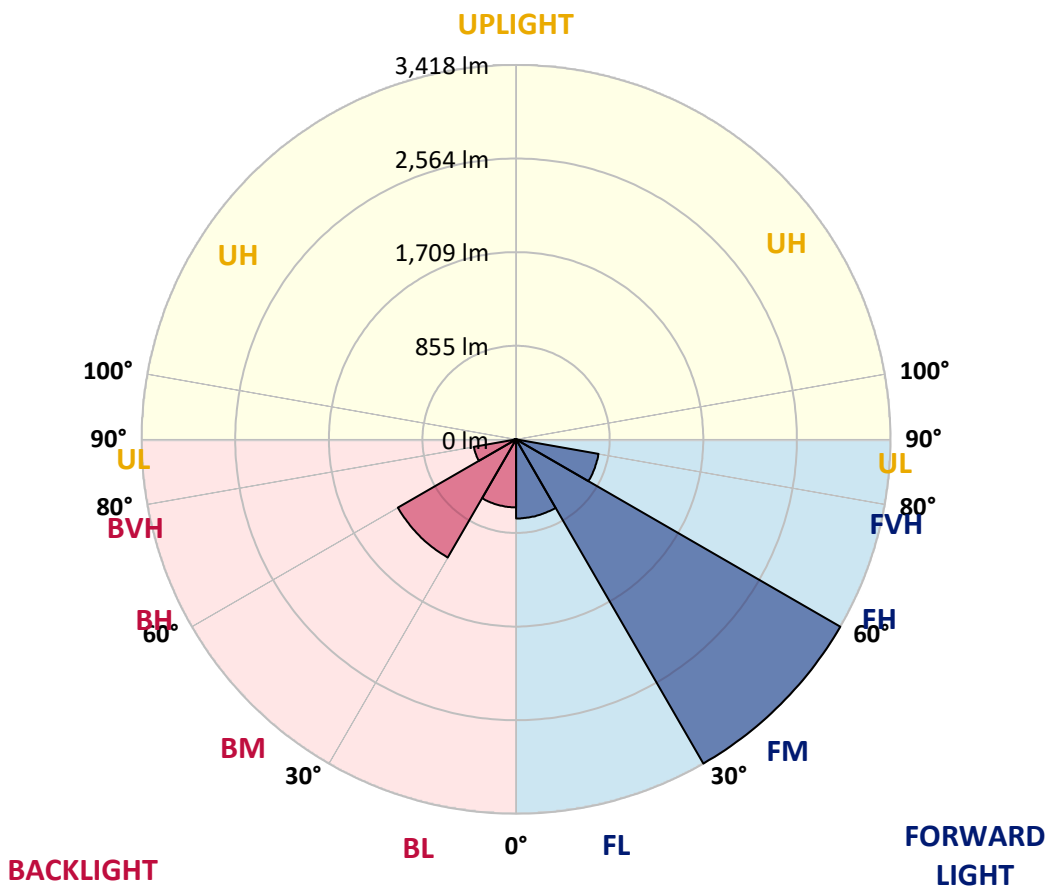
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	722.3	10.0			
FM (30°-60°)	3418.1	47.5			
FH (60°-80°)	764.2	10.6			G1/1800
FVH (80°-90°)	10.3	0.1			G1/100
BL (0°-30°)	620.8	8.6	B2/1000		
BM (30°-60°)	1246.5	17.3	B2/2500		
BH (60°-80°)	391.4	5.4	B1/500		G1/500
BVH (80°-90°)	17.1	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-G1

Type II Short





REPORT NUMBER: P631347

CATALOG NUMBER: GWS-SA1F-740-U-T3-W-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	1333.5	1333.5	1333.5	1333.5	1333.5	1333.5	1333.5	1333.5	1333.5	1333.5	1333.5
2.5°	1331.1	1330.5	1330.5	1334.1	1334.1	1335.3	1337.1	1339.0	1339.6	1336.5	1329.9
5°	1345.6	1345.6	1345.6	1348.6	1348.6	1349.8	1352.2	1352.9	1352.2	1347.4	1340.8
7.5°	1368.6	1368.6	1369.2	1372.8	1375.8	1377.6	1381.8	1381.2	1379.4	1371.6	1363.1
10°	1406.0	1407.8	1409.6	1413.9	1419.9	1424.1	1427.1	1427.1	1424.7	1412.6	1401.8
12.5°	1459.1	1461.6	1463.4	1467.0	1471.8	1479.1	1485.7	1485.7	1482.7	1467.6	1451.3
15°	1521.4	1523.8	1523.2	1524.4	1533.4	1543.7	1549.1	1552.8	1554.0	1532.8	1507.5
17.5°	1592.6	1595.0	1592.6	1589.0	1590.2	1606.5	1616.2	1629.5	1637.3	1608.9	1568.5
20°	1657.2	1654.8	1654.8	1657.2	1660.9	1680.8	1695.3	1717.0	1726.7	1692.3	1629.5
22.5°	1725.5	1730.9	1728.5	1728.5	1743.0	1776.2	1793.7	1822.1	1832.4	1787.7	1703.1
25°	1813.7	1818.5	1817.3	1818.5	1835.4	1882.5	1900.0	1952.6	1962.8	1898.8	1784.7
27.5°	1910.3	1918.2	1921.8	1920.6	1947.7	2009.3	2031.1	2104.2	2122.9	2023.2	1871.6
30°	2035.9	2044.4	2047.4	2046.2	2078.2	2162.1	2186.9	2270.3	2296.8	2170.6	1982.2
32.5°	2181.5	2189.9	2199.0	2202.6	2243.7	2329.4	2365.1	2451.4	2489.5	2340.9	2115.6
35°	2325.8	2333.1	2350.6	2379.0	2435.1	2522.7	2554.1	2639.3	2676.1	2517.9	2276.9
37.5°	2485.3	2490.1	2505.2	2544.4	2625.4	2708.7	2740.1	2821.7	2825.9	2688.8	2459.3
40°	2659.8	2659.8	2656.8	2695.4	2780.0	2863.9	2891.1	2938.2	2913.5	2820.5	2636.9
42.5°	2807.8	2805.4	2807.8	2844.0	2906.8	2975.1	2998.6	2989.6	2958.2	2921.3	2797.5
45°	2941.2	2943.1	2964.8	2992.6	3025.2	3065.7	3079.6	3028.2	2999.8	3002.2	2926.1
47.5°	3031.8	3033.7	3084.4	3130.9	3150.8	3163.5	3157.5	3086.2	3071.7	3098.9	3025.2
50°	3043.9	3053.6	3141.2	3236.6	3286.1	3287.9	3271.0	3184.0	3179.8	3210.6	3078.3
52.5°	3046.3	3056.0	3165.3	3337.4	3466.1	3493.3	3473.9	3383.3	3339.2	3308.4	3143.6
55°	3037.3	3048.1	3168.9	3405.1	3651.5	3760.2	3762.0	3634.0	3493.3	3472.7	3329.6
57.5°	2681.5	2685.8	2873.0	3233.0	3644.2	3952.3	3975.8	3801.9	3641.2	3621.9	3478.8
60°	1868.0	1884.9	2088.5	2563.8	3061.4	3604.4	3680.5	3629.8	3522.2	3381.5	2984.7
62.5°	935.5	950.0	1154.2	1603.5	2111.4	2540.2	2621.8	2675.5	2700.9	2549.9	2032.3
65°	402.8	413.7	540.5	837.7	1195.2	1402.4	1430.8	1495.4	1653.6	1475.5	1095.0
67.5°	269.4	276.6	341.2	510.9	704.2	717.5	713.3	727.2	761.6	628.7	494.6
70°	206.6	212.6	256.1	374.5	506.1	433.0	410.1	372.0	404.0	411.9	401.0
72.5°	149.8	154.6	187.2	255.5	317.1	276.6	273.0	292.3	335.8	347.9	341.2
75°	96.6	99.0	119.0	140.1	163.7	177.6	184.8	219.8	263.9	273.0	265.1
77.5°	64.6	66.4	77.9	90.0	93.0	93.6	96.0	111.7	141.9	158.8	157.0
80°	33.8	33.8	38.0	38.0	43.5	51.9	54.4	64.6	78.5	87.0	87.6
82.5°	13.3	13.9	16.3	18.1	21.7	26.6	28.4	33.8	41.1	47.1	52.5
85°	5.4	6.0	6.6	7.9	9.7	12.1	12.7	14.5	19.3	24.2	27.2
87.5°	0.0	0.0	0.6	0.6	1.2	1.8	1.8	2.4	3.0	5.4	7.2
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: P631347

CATALOG NUMBER: GWS-SA1F-740-U-T3-W-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1333.5	1333.5	1333.5	1333.5	1333.5	1333.5	1333.5	1333.5	1333.5	1333.5	1333.5
2.5°	1337.8	1329.9	1337.8	1340.2	1346.8	1349.2	1345.0	1344.4	1344.4	1338.4	1336.5
5°	1346.8	1339.6	1347.4	1351.0	1360.7	1366.7	1368.0	1372.8	1375.8	1373.4	1372.8
7.5°	1369.2	1360.1	1368.6	1374.0	1386.7	1396.3	1400.6	1411.4	1419.3	1418.1	1417.5
10°	1408.4	1396.3	1406.0	1415.1	1429.0	1440.4	1441.0	1447.1	1454.9	1452.5	1451.3
12.5°	1453.7	1442.2	1453.1	1462.2	1478.5	1483.3	1475.5	1473.0	1474.2	1471.2	1468.8
15°	1509.3	1493.0	1502.6	1512.9	1522.0	1516.5	1499.6	1493.0	1492.4	1488.1	1485.7
17.5°	1564.8	1544.3	1551.6	1557.0	1552.8	1535.8	1514.7	1503.2	1497.8	1489.3	1486.9
20°	1619.8	1593.8	1592.6	1588.4	1569.1	1538.3	1509.9	1486.9	1473.0	1461.6	1457.3
22.5°	1682.6	1646.4	1628.3	1608.9	1566.7	1516.5	1473.6	1441.0	1418.7	1404.2	1399.4
25°	1750.3	1698.9	1661.5	1622.8	1542.5	1470.0	1410.2	1365.5	1339.0	1323.3	1317.8
27.5°	1817.3	1746.6	1690.5	1624.6	1494.2	1403.0	1322.7	1262.3	1235.7	1223.0	1218.8
30°	1907.9	1810.0	1724.9	1601.1	1430.8	1310.0	1209.7	1148.7	1131.2	1122.1	1118.5
32.5°	2012.4	1890.4	1770.8	1551.6	1349.8	1201.3	1095.6	1053.3	1041.2	1023.7	1023.1
35°	2150.1	2005.1	1814.3	1478.5	1247.8	1084.7	1008.0	977.8	956.1	928.3	925.9
37.5°	2310.7	2148.3	1837.8	1385.5	1128.8	988.7	942.8	908.9	873.9	837.1	832.2
40°	2476.8	2315.6	1839.6	1275.5	1012.2	925.3	886.6	842.5	799.0	758.0	752.5
42.5°	2651.3	2471.4	1807.6	1148.7	916.8	870.3	831.0	775.5	726.6	698.8	695.8
45°	2807.2	2597.0	1735.2	1015.2	846.1	824.4	774.3	714.5	688.5	668.6	664.3
47.5°	2929.8	2680.3	1637.3	895.7	788.8	777.3	712.1	681.3	661.3	643.2	639.0
50°	2990.2	2699.1	1509.9	798.4	735.6	721.7	677.0	653.5	640.2	625.7	622.1
52.5°	3065.1	2720.2	1400.0	716.9	683.7	665.0	648.0	629.3	619.7	610.6	607.6
55°	3237.2	2799.9	1342.0	651.7	634.1	625.7	623.3	607.6	604.6	598.5	593.1
57.5°	3307.2	2748.6	1204.9	598.5	594.9	596.1	602.1	587.6	584.6	577.4	573.8
60°	2659.8	2077.6	815.9	552.6	562.3	570.1	576.2	561.7	557.4	556.2	551.4
62.5°	1704.4	1278.0	569.5	509.7	524.2	533.9	537.5	523.6	520.6	530.3	530.9
65°	887.2	696.4	462.0	463.8	475.9	490.4	497.7	492.8	491.6	501.9	502.5
67.5°	453.0	425.8	402.8	409.5	419.1	437.9	454.8	475.9	483.2	484.4	485.0
70°	385.9	373.8	362.4	366.6	376.9	387.1	403.4	413.7	401.6	398.6	397.4
72.5°	328.5	319.5	314.1	318.9	324.3	322.5	317.7	322.5	324.3	324.9	325.5
75°	255.5	248.8	244.6	245.2	245.2	238.6	229.5	224.1	218.0	213.2	213.2
77.5°	156.4	157.6	161.9	161.3	160.7	158.2	149.2	144.3	129.8	125.6	125.6
80°	89.4	91.2	95.4	96.6	96.6	93.6	84.6	79.1	72.5	69.5	68.9
82.5°	54.4	56.8	59.2	60.4	61.0	57.4	49.5	45.3	41.7	38.7	38.7
85°	28.4	29.6	32.0	32.6	30.8	27.2	23.0	21.1	17.5	16.9	16.9
87.5°	7.9	8.5	9.7	7.9	7.2	5.4	3.0	2.4	1.2	0.6	0.6
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)