

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: P631284

Luminaire Tested: GWS-SA1F-735-U-T2-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631284
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-SA1F-735-U-T2-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSALLED GLARE SHIELD, WH
Light Source: (16) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6927.8 lumens
Efficiency: N/A
Efficacy: 103.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

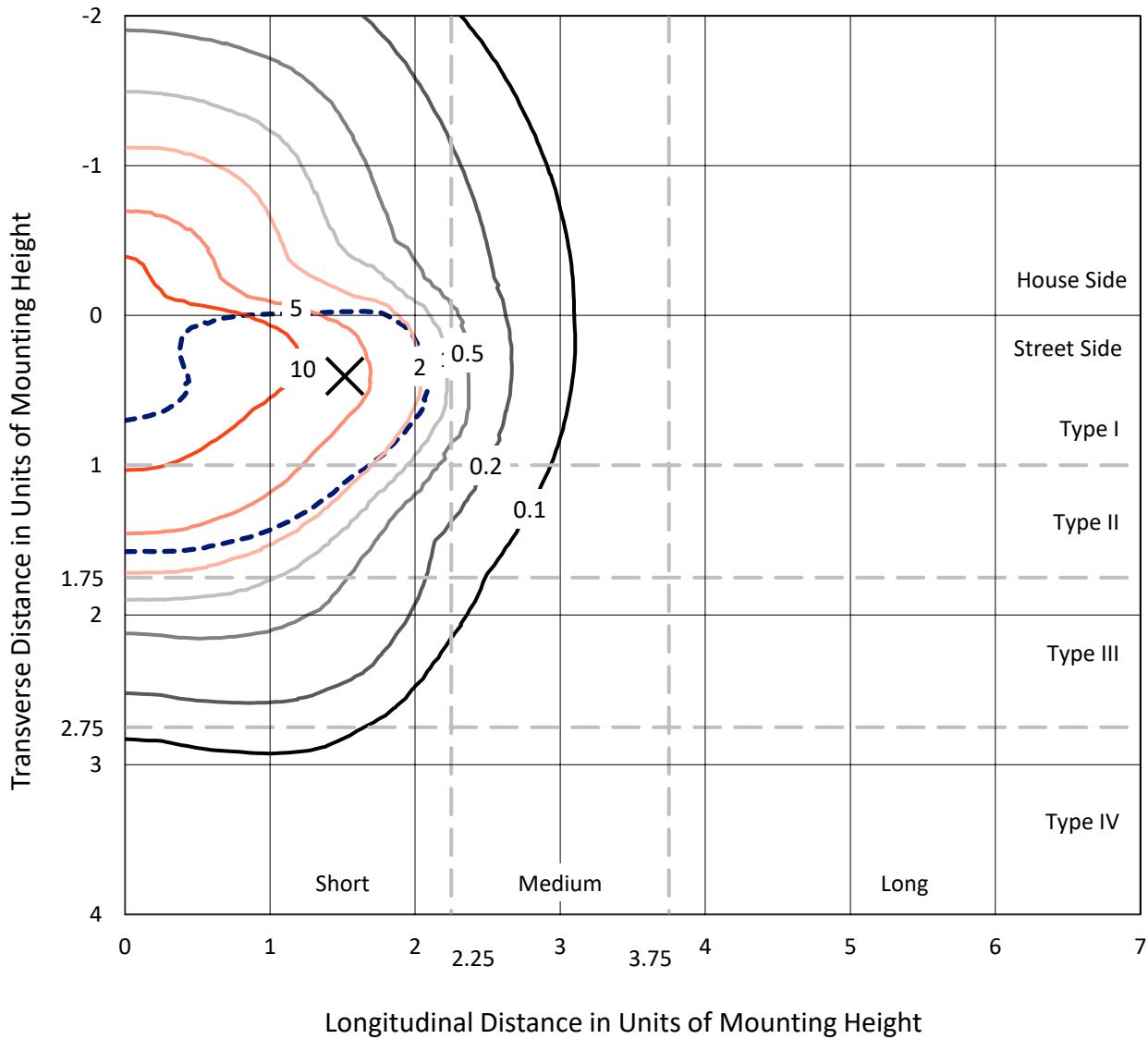
Input Watts (W): 67.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

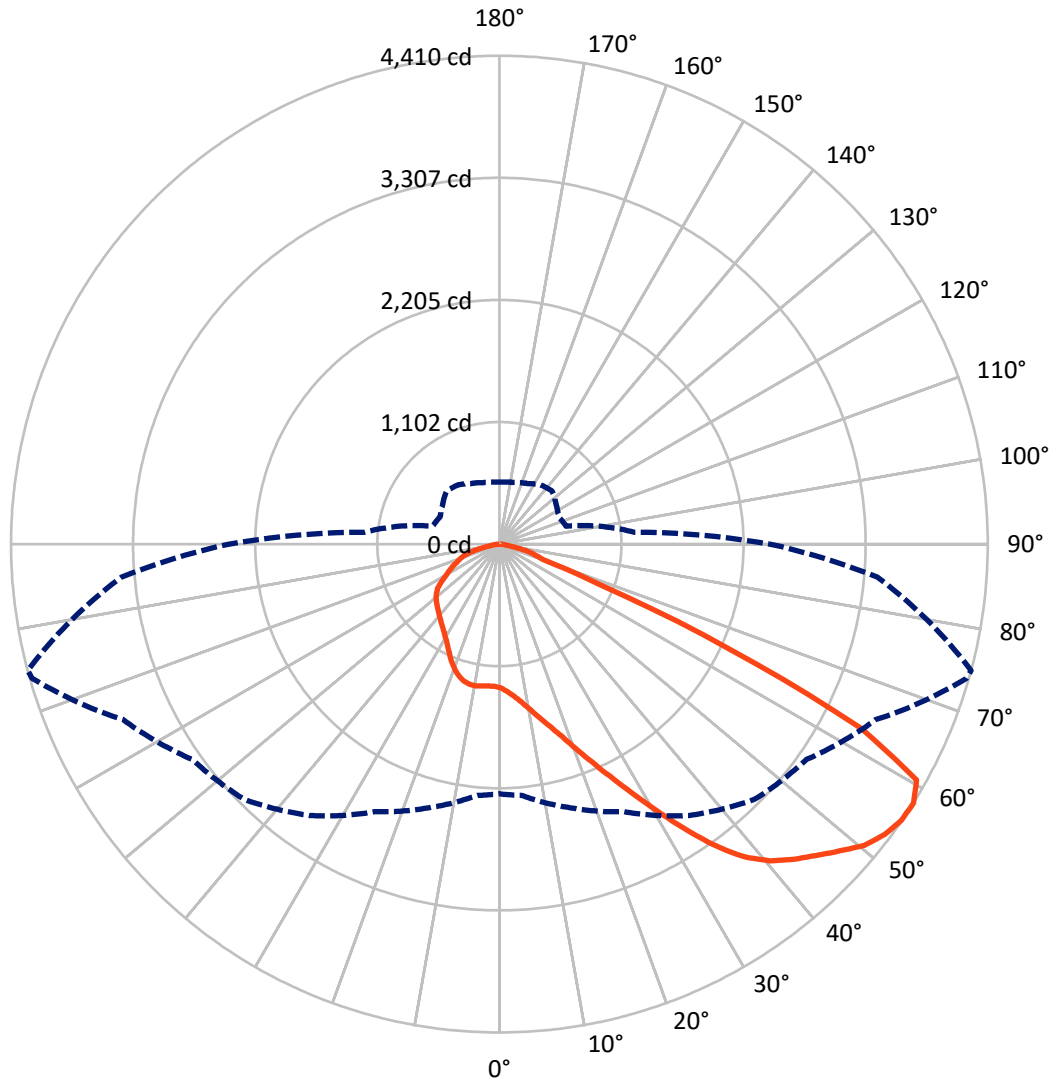
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 18.4 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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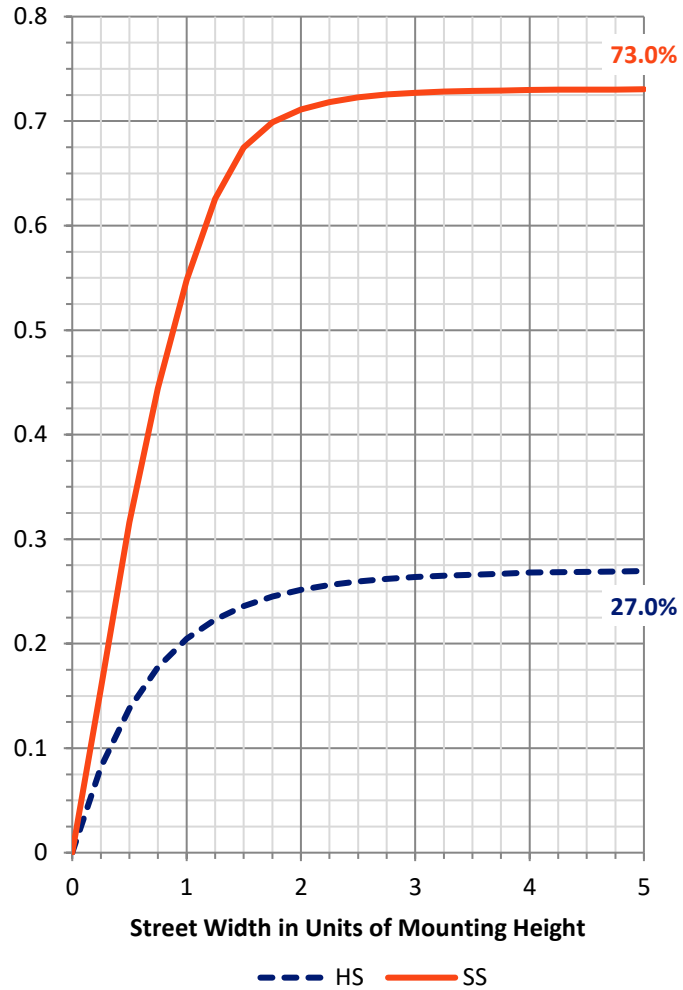
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1874.1	0.0	1874.1
	% Fixture	27.1	0.0	27.1
Street Side	Lumens	5053.7	0.0	5053.7
	% Fixture	72.9	0.0	72.9
Total	Lumens	6927.8	0.0	6927.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.8	1.9
10°-20°	413.4	6.0
20°-30°	733.1	10.6
30°-40°	1122.2	16.2
40°-50°	1562.6	22.6
50°-60°	1790.4	25.8
60°-70°	919.9	13.3
70°-80°	231.6	3.3
80°-90°	24.8	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°	6927.8	100.0
0°-180°	6927.8	100.0

Coefficient of Utilization



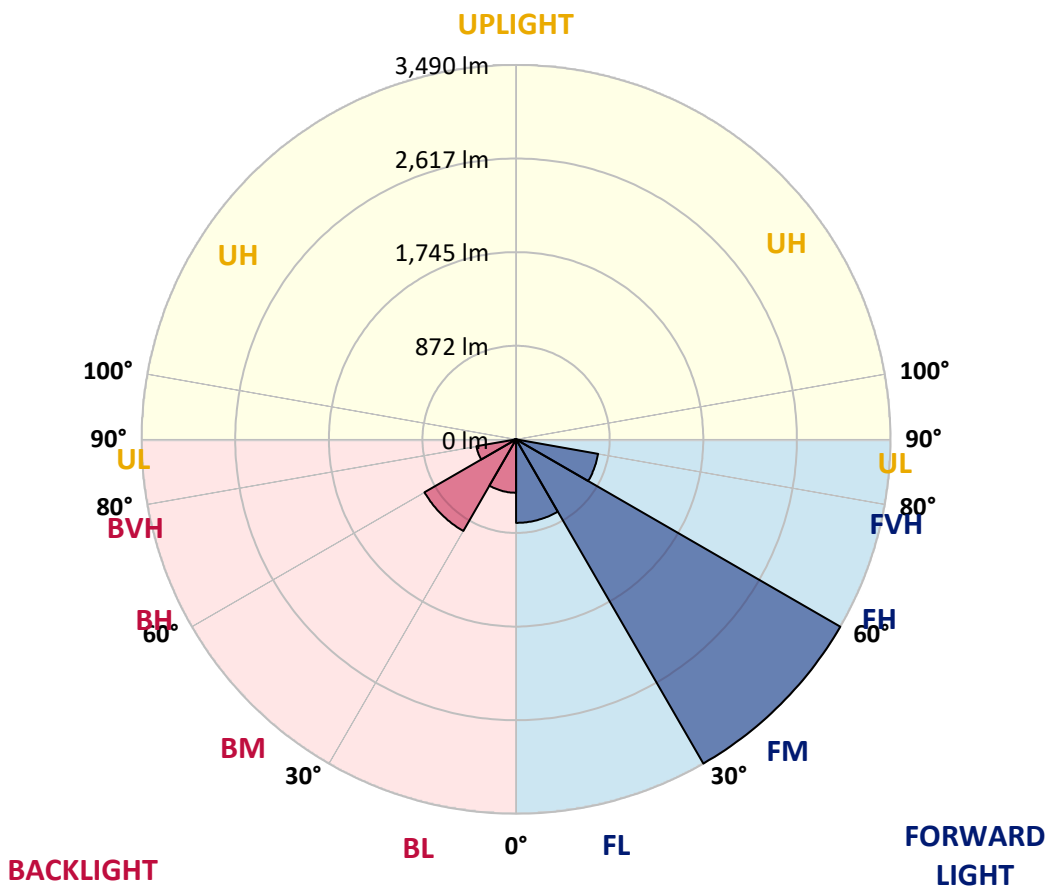
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	778.4	11.2			
FM (30°-60°)	3489.6	50.4			
FH (60°-80°)	776.5	11.2			G1/1800
FVH (80°-90°)	9.2	0.1			G0/10
BL (0°-30°)	497.9	7.2	B1/500		
BM (30°-60°)	985.6	14.2	B1/1000		
BH (60°-80°)	375.0	5.4	B1/500		G1/500
BVH (80°-90°)	15.6	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1297.4	1297.4	1297.4	1297.4	1297.4	1297.4	1297.4	1297.4	1297.4	1297.4	1297.4
2.5°	1393.9	1397.5	1393.9	1399.9	1388.0	1382.6	1369.5	1349.8	1334.3	1332.0	1314.7
5°	1502.3	1510.1	1505.3	1502.9	1486.8	1474.9	1455.3	1416.0	1383.8	1379.0	1345.1
7.5°	1572.0	1577.4	1577.4	1579.2	1573.2	1559.5	1538.7	1492.2	1446.9	1439.8	1388.6
10°	1595.3	1599.4	1607.2	1622.1	1634.0	1638.1	1624.4	1579.8	1524.4	1517.2	1445.7
12.5°	1600.6	1605.4	1617.3	1644.7	1677.5	1707.2	1709.6	1676.9	1614.9	1607.2	1511.9
15°	1610.7	1615.5	1631.6	1665.5	1713.8	1771.0	1806.1	1783.5	1715.0	1706.6	1586.9
17.5°	1609.6	1614.9	1638.7	1684.0	1748.9	1831.7	1899.7	1909.2	1838.3	1824.0	1672.1
20°	1606.6	1611.3	1637.0	1692.4	1772.8	1886.5	2009.3	2058.7	1982.5	1969.3	1771.6
22.5°	1630.4	1635.8	1655.4	1701.3	1785.3	1928.8	2110.5	2229.7	2153.4	2134.9	1886.0
25°	1684.0	1691.8	1703.7	1735.2	1807.9	1966.4	2214.2	2423.3	2345.2	2323.2	2010.5
27.5°	1766.8	1776.3	1793.0	1807.9	1858.5	2014.0	2317.2	2640.1	2562.1	2538.8	2142.1
30°	1868.1	1880.6	1902.0	1912.2	1946.7	2084.3	2429.2	2863.5	2818.2	2786.0	2290.4
32.5°	2008.1	2025.3	2045.6	2048.6	2069.4	2190.9	2540.0	3085.1	3084.5	3061.8	2459.0
35°	2190.3	2208.8	2213.0	2217.2	2227.3	2337.5	2674.0	3287.0	3365.0	3338.8	2642.5
37.5°	2389.3	2416.1	2422.7	2404.2	2418.5	2513.8	2824.8	3449.0	3609.3	3581.3	2820.0
40°	2602.0	2612.7	2630.6	2601.4	2619.2	2715.7	2972.5	3552.7	3791.6	3761.8	2960.0
42.5°	2754.5	2774.1	2800.9	2790.2	2800.3	2888.5	3076.1	3602.7	3921.4	3891.6	3060.7
45°	2920.1	2926.0	2943.3	2940.9	2946.9	3029.1	3150.6	3624.8	4037.6	4010.8	3146.4
47.5°	3064.2	3073.2	3084.5	3071.4	3058.3	3111.9	3211.4	3643.8	4171.6	4139.4	3236.4
50°	3203.0	3210.8	3224.5	3186.3	3137.5	3151.2	3241.1	3670.0	4297.3	4274.7	3307.3
52.5°	3228.6	3237.0	3301.3	3309.1	3246.5	3198.3	3293.6	3727.8	4371.2	4356.9	3332.9
55°	2906.4	2921.3	3049.3	3196.5	3350.8	3335.3	3377.6	3758.2	4400.4	4403.9	3378.7
57.5°	2255.9	2277.3	2464.4	2666.3	2991.0	3259.6	3388.3	3750.5	4390.2	4409.9	3425.8
60°	1479.7	1492.2	1713.8	1940.2	2276.7	2648.4	3032.7	3611.1	4300.3	4328.3	3413.9
62.5°	893.5	907.8	1085.9	1257.5	1455.9	1704.3	2056.9	2902.2	3604.5	3667.1	2734.2
65°	623.7	642.7	798.8	940.0	1008.5	957.3	1041.9	1620.9	2245.7	2272.0	1670.9
67.5°	452.1	465.2	593.3	761.3	836.9	676.1	515.3	717.8	978.1	987.7	689.2
70°	296.1	310.9	427.1	579.6	683.3	548.0	385.4	388.4	411.6	416.4	400.3
72.5°	162.6	171.6	263.9	384.8	403.9	327.6	300.8	322.9	338.9	338.9	343.1
75°	84.0	91.7	107.8	126.9	153.1	179.3	216.8	249.6	266.9	268.1	266.3
77.5°	42.9	45.9	57.8	62.5	68.5	79.8	103.6	132.8	148.3	154.3	153.1
80°	20.3	21.4	24.4	28.6	35.1	44.7	56.0	66.7	76.2	77.4	84.0
82.5°	10.7	11.9	13.1	15.5	19.1	23.8	32.8	39.3	45.3	46.5	51.8
85°	4.2	4.8	5.4	6.0	8.3	10.1	13.7	18.5	22.6	22.6	26.8
87.5°	0.0	0.0	0.0	0.0	0.6	1.2	2.4	3.0	4.2	4.2	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1297.4	1297.4	1297.4	1297.4	1297.4	1297.4	1297.4	1297.4	1297.4	1297.4	1297.4
2.5°	1310.5	1293.2	1285.5	1273.0	1262.9	1251.5	1242.6	1236.1	1231.9	1229.5	1227.1
5°	1332.0	1305.8	1284.9	1259.9	1242.6	1225.9	1212.2	1202.7	1197.9	1194.4	1192.0
7.5°	1365.3	1330.2	1290.9	1252.1	1221.8	1195.0	1177.7	1167.6	1161.0	1158.6	1156.8
10°	1411.2	1362.3	1297.4	1236.1	1190.8	1161.6	1149.7	1144.9	1145.5	1144.3	1143.7
12.5°	1463.0	1396.3	1295.6	1207.5	1157.4	1140.1	1140.7	1148.5	1157.4	1159.8	1160.4
15°	1519.0	1429.7	1278.3	1170.5	1131.2	1133.0	1148.5	1167.0	1183.6	1190.2	1191.4
17.5°	1579.8	1457.7	1246.8	1130.0	1109.8	1128.8	1157.4	1187.8	1212.2	1222.9	1225.9
20°	1647.7	1481.5	1202.1	1090.1	1089.5	1121.1	1162.8	1202.7	1233.7	1248.0	1250.4
22.5°	1719.8	1496.4	1147.3	1053.2	1068.7	1111.0	1158.6	1200.3	1233.1	1247.4	1250.4
25°	1792.4	1501.1	1087.1	1019.2	1047.2	1094.9	1138.4	1171.7	1202.7	1215.2	1217.6
27.5°	1860.3	1487.4	1029.9	990.0	1027.6	1071.0	1100.2	1118.1	1139.6	1149.1	1150.9
30°	1929.4	1460.0	981.7	966.8	1005.5	1038.3	1051.4	1052.6	1060.9	1060.9	1062.1
32.5°	1999.1	1419.5	939.4	944.2	978.1	999.6	1001.4	987.7	977.5	960.8	960.3
35°	2079.6	1378.4	904.9	918.6	946.0	959.1	953.7	927.5	903.1	875.7	874.5
37.5°	2154.0	1336.1	875.7	892.3	909.6	919.1	906.6	875.1	854.8	826.8	822.6
40°	2215.4	1298.0	847.7	864.9	873.3	881.6	861.4	835.8	838.7	823.2	822.6
42.5°	2251.1	1261.1	821.5	834.6	839.9	845.9	828.0	808.9	825.0	813.1	813.7
45°	2277.3	1228.9	797.6	802.4	815.5	824.4	807.8	786.3	789.9	744.0	733.3
47.5°	2307.1	1211.0	775.0	770.2	793.5	808.9	783.3	752.4	730.9	685.6	681.5
50°	2338.7	1204.5	751.2	738.1	766.1	780.9	751.2	712.4	684.4	660.0	657.6
52.5°	2349.4	1203.9	721.4	699.3	727.3	748.2	723.2	683.9	650.5	626.7	625.5
55°	2391.7	1221.2	683.3	646.3	672.5	715.4	697.0	640.4	613.6	602.8	601.6
57.5°	2441.1	1224.1	623.1	588.5	624.9	675.5	652.3	603.4	574.2	561.1	559.9
60°	2420.9	1150.9	558.8	544.5	584.4	638.0	616.5	574.2	540.3	527.8	526.6
62.5°	1844.8	812.5	511.7	506.3	540.9	583.8	579.6	535.5	503.4	494.4	493.2
65°	1109.8	570.7	466.4	465.8	490.3	531.4	536.7	501.0	467.0	454.5	454.5
67.5°	548.6	436.6	415.2	412.2	427.7	456.9	479.5	450.3	421.7	409.8	408.0
70°	387.8	384.8	377.7	369.3	372.3	384.2	393.8	369.3	338.9	327.0	324.7
72.5°	335.4	336.0	331.2	324.7	322.3	313.9	305.6	287.7	269.3	256.7	257.9
75°	260.3	261.5	264.5	262.1	255.6	246.6	237.7	215.0	200.2	188.2	185.9
77.5°	151.9	157.9	167.4	165.0	166.2	153.7	150.1	128.1	114.4	106.0	104.2
80°	85.8	89.4	93.5	96.5	92.9	87.6	79.8	67.9	63.7	57.8	56.6
82.5°	51.8	55.4	57.2	59.6	58.4	51.2	45.3	37.5	34.0	31.0	30.4
85°	26.2	28.6	30.4	31.6	28.0	23.2	20.8	16.7	14.3	12.5	12.5
87.5°	6.6	7.1	8.3	7.1	6.6	3.0	2.4	0.6	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)