

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P451550

Luminaire Tested: **GALN-SA2B-830-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451550
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2B-830-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9073 lumens
Efficiency: N/A
Efficacy: 110.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

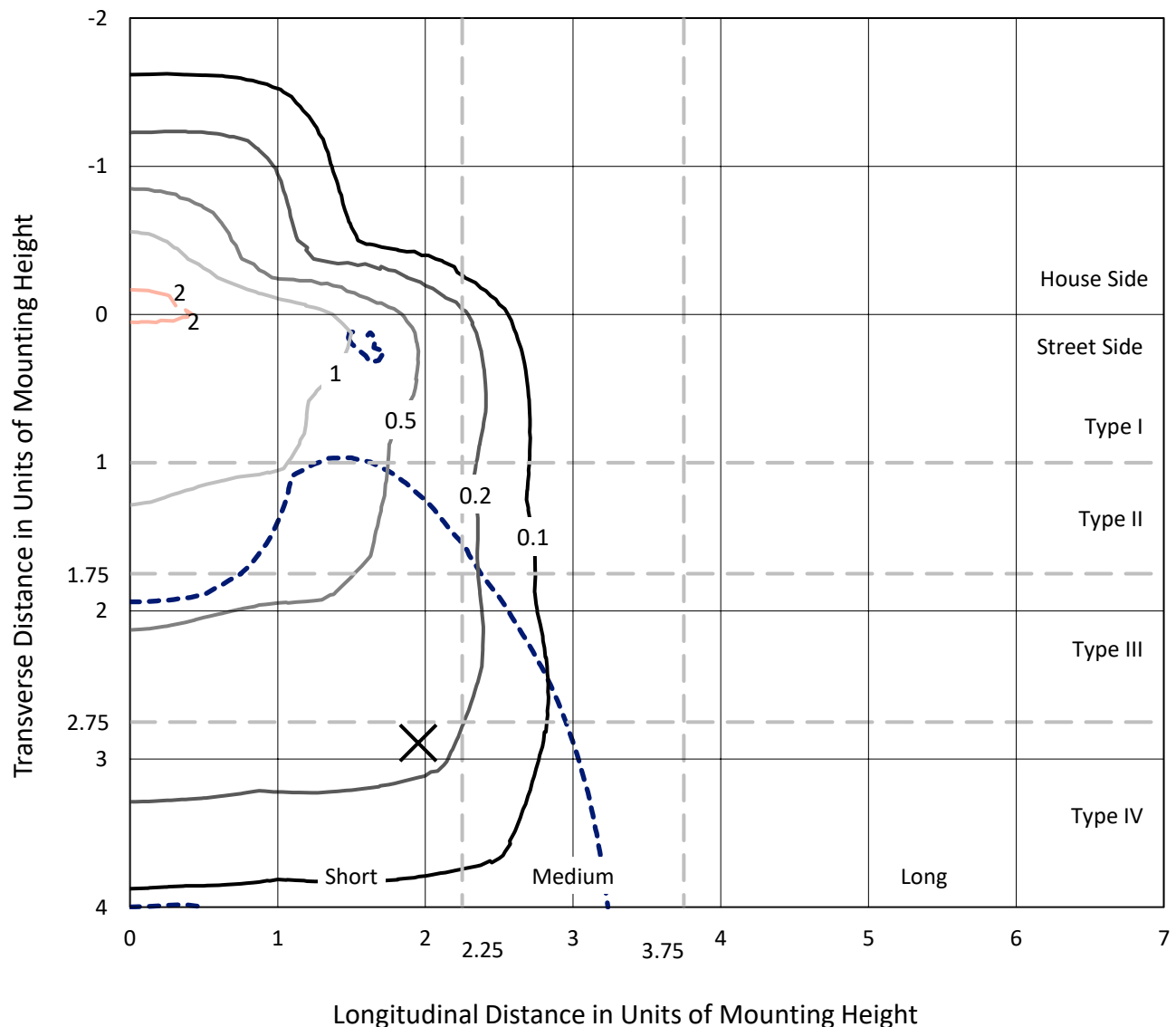


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

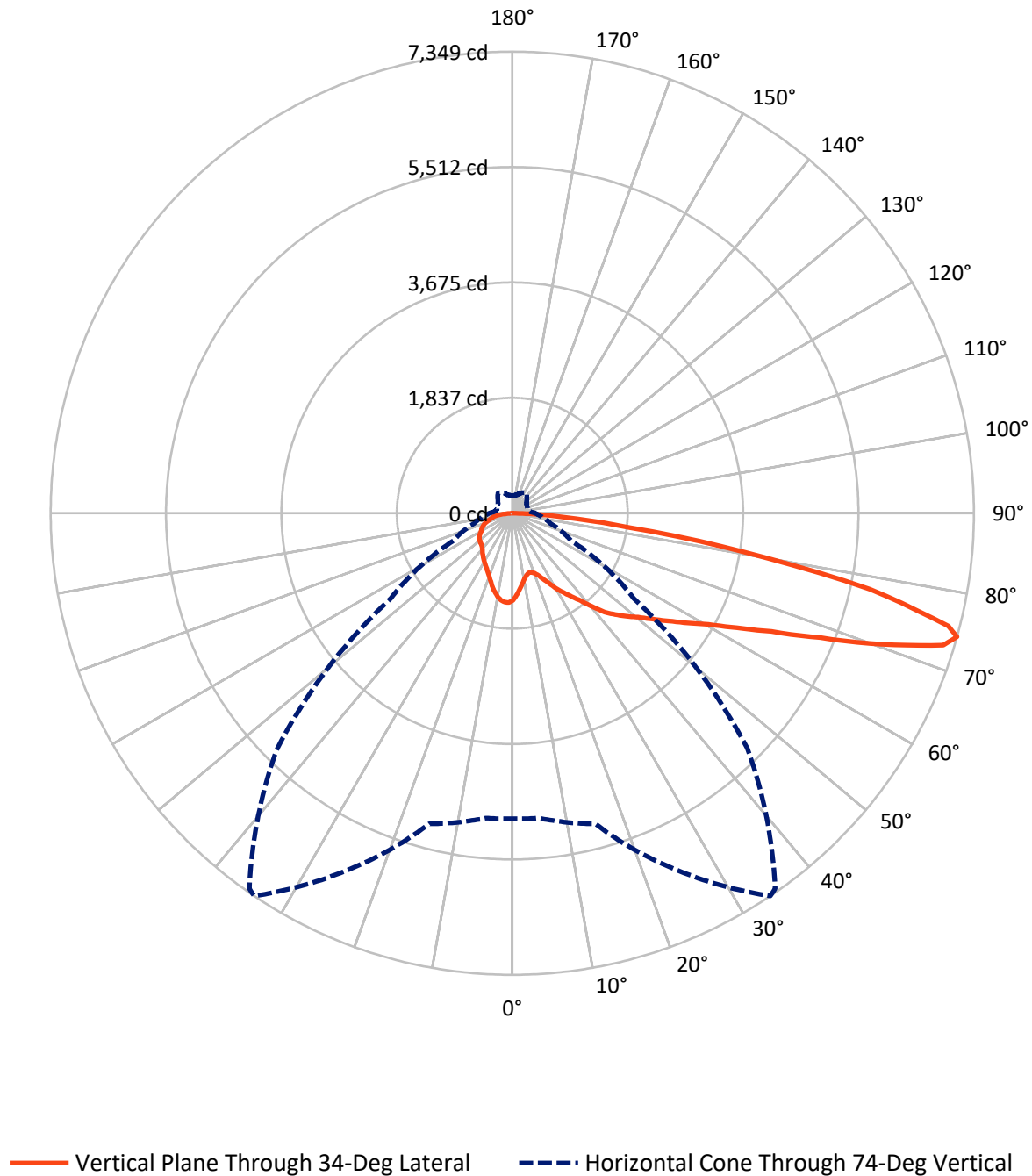


Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1930.8	0.0	1930.8
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	7142.2	0.0	7142.2
	% Fixture	78.7	0.0	78.7
Total	Lumens	9073.0	0.0	9073.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.0	1.4
10°-20°	344.9	3.8
20°-30°	568.6	6.3
30°-40°	851.7	9.4
40°-50°	1238.2	13.6
50°-60°	1729.4	19.1
60°-70°	2165.1	23.9
70°-80°	1790.4	19.7
80°-90°	258.7	2.9
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°	9073.0	100.0
0°-180°	9073.0	100.0

Coefficient of Utilization



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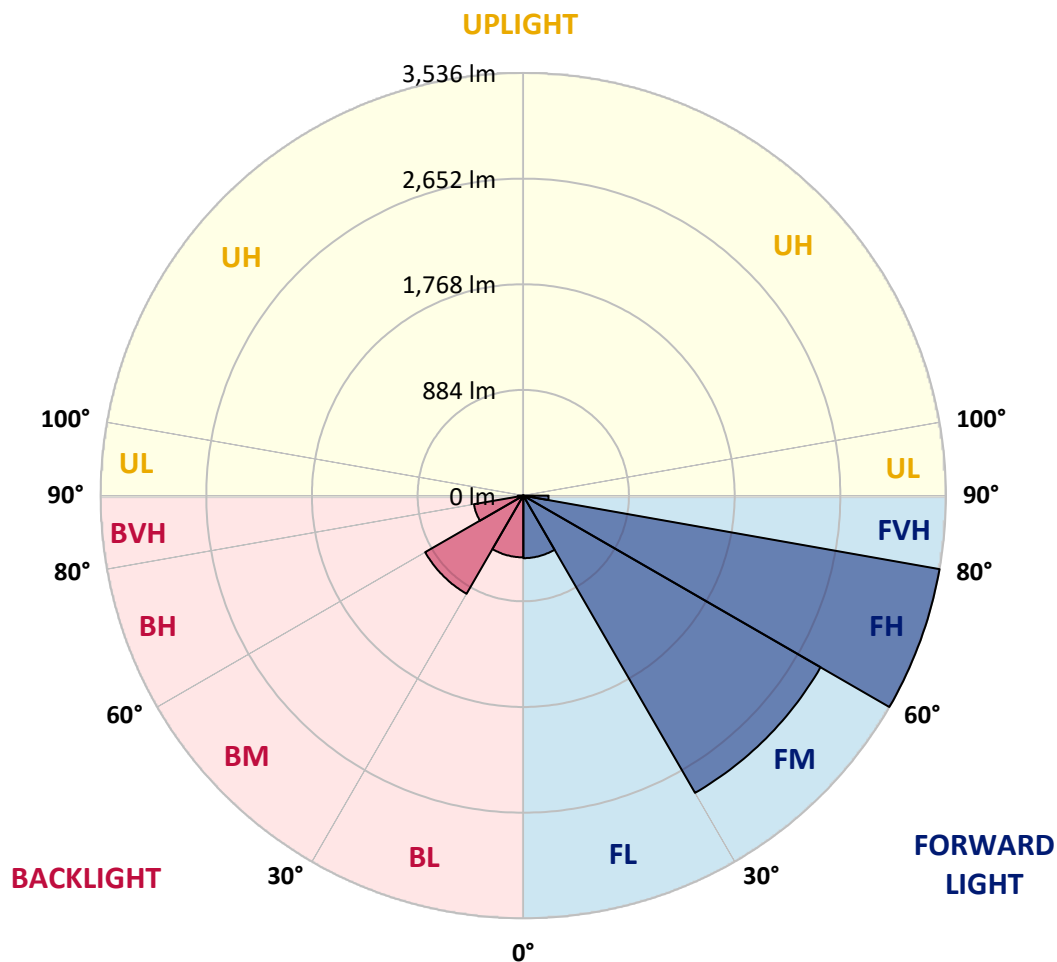
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	523.0	5.8			
FM	(30°-60°)	2871.1	31.6			
FH	(60°-80°)	3536.2	39.0			G2/5000
FVH	(80°-90°)	211.9	2.3			G2/225
BL	(0°-30°)	516.5	5.7	B2/1000		
BM	(30°-60°)	948.2	10.5	B1/1000		
BH	(60°-80°)	419.4	4.6	B1/500		G1/500
BVH	(80°-90°)	46.8	0.5			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	1385.3	1385.3	1385.3	1385.3	1385.3	1385.3	1385.3	1385.3	1385.3	1385.3	1385.3
2.5°	1280.2	1286.8	1290.3	1302.8	1305.9	1309.9	1320.4	1334.5	1352.6	1368.7	1382.8
5°	1173.7	1183.7	1189.7	1200.8	1222.4	1224.4	1252.6	1284.7	1321.4	1355.6	1383.8
7.5°	1072.6	1083.7	1088.7	1108.8	1137.5	1142.0	1183.2	1234.0	1295.3	1347.1	1390.3
10°	996.7	1002.3	1013.3	1028.4	1062.6	1065.6	1119.4	1187.2	1266.6	1343.0	1401.4
12.5°	955.5	958.5	961.0	977.1	1010.8	1015.3	1071.6	1148.5	1244.0	1346.1	1419.4
15°	961.5	962.5	951.5	954.5	981.7	988.2	1044.0	1122.9	1230.0	1353.6	1446.6
17.5°	1012.3	1008.8	981.7	967.6	986.7	989.7	1038.4	1112.8	1223.4	1367.7	1474.7
20°	1092.2	1087.2	1040.5	1009.3	1020.4	1022.9	1056.5	1120.4	1230.0	1390.8	1518.5
22.5°	1191.8	1189.7	1118.9	1081.2	1080.7	1080.7	1098.3	1147.5	1249.6	1422.5	1564.2
25°	1331.0	1320.4	1227.9	1179.2	1165.6	1164.6	1162.6	1192.3	1274.7	1456.1	1618.5
27.5°	1473.7	1455.6	1373.2	1298.3	1269.2	1265.6	1252.6	1255.6	1306.9	1494.3	1680.3
30°	1601.9	1590.3	1512.9	1430.0	1395.3	1387.3	1351.1	1334.5	1360.6	1563.2	1778.8
32.5°	1699.9	1692.9	1632.6	1557.2	1505.9	1504.4	1451.6	1438.0	1444.6	1646.6	1891.4
35°	1779.3	1781.8	1751.2	1685.8	1627.0	1618.5	1583.3	1566.2	1547.1	1767.3	2033.2
37.5°	1887.9	1893.4	1891.4	1835.1	1763.3	1765.3	1757.2	1729.1	1678.3	1902.0	2190.5
40°	2007.5	2011.6	2011.1	1989.4	1951.7	1953.8	1950.7	1918.6	1842.7	2073.4	2365.4
42.5°	2172.9	2153.8	2104.0	2125.7	2147.8	2157.3	2177.9	2147.3	2043.2	2256.3	2529.8
45°	2357.9	2321.7	2209.1	2219.1	2301.1	2319.2	2432.8	2390.5	2260.9	2466.4	2723.3
47.5°	2474.5	2438.8	2343.8	2341.8	2450.4	2467.9	2669.0	2653.4	2458.9	2693.1	2959.5
50°	2578.5	2573.5	2466.4	2492.1	2598.1	2624.3	2926.4	2911.8	2656.4	2960.5	3216.9
52.5°	2732.8	2692.1	2606.7	2659.5	2799.7	2833.9	3181.7	3139.0	2837.9	3196.8	3466.7
55°	2802.2	2792.7	2787.6	2833.4	3025.9	3050.5	3430.0	3332.0	2992.7	3396.8	3656.7
57.5°	2987.7	2970.1	3019.8	3051.0	3292.3	3330.0	3689.4	3533.5	3128.4	3555.7	3749.2
60°	3227.9	3218.4	3264.1	3320.4	3589.8	3647.1	3984.9	3705.4	3237.5	3635.6	3698.4
62.5°	3586.8	3585.8	3577.3	3697.9	4011.5	4064.3	4324.2	3872.8	3254.6	3575.8	3436.0
65°	4101.5	4083.4	4009.0	4140.7	4536.3	4598.1	4677.5	3966.3	3151.5	3268.6	2893.2
67.5°	4639.8	4638.8	4578.5	4749.4	5289.8	5353.6	5119.4	3945.7	2865.5	2647.9	2054.8
70°	5086.2	5064.6	5141.5	5596.9	6252.3	6326.2	5505.9	3702.9	2282.5	1748.7	1220.9
72.5°	5193.2	5194.3	5354.1	6250.3	7176.7	7188.2	5645.1	3001.2	1527.5	964.6	610.7
74°	4863.5	4872.1	5119.9	6283.0	7349.1	7296.8	5289.2	2358.9	1032.9	629.8	440.3
75°	4439.3	4385.5	4743.9	6065.3	7170.1	7113.8	4872.6	1892.9	788.1	503.1	385.5
77.5°	2373.5	2428.2	2981.1	4526.2	5825.1	5760.2	3303.8	907.8	425.7	350.3	277.5
80°	844.9	931.9	1309.9	2368.4	3734.6	3754.7	1576.8	416.2	299.6	258.4	196.0
82.5°	344.8	354.4	562.5	1051.0	1896.4	1914.5	643.9	247.3	214.1	177.9	117.1
85°	134.7	138.7	248.8	472.5	809.2	862.0	222.7	130.7	131.7	102.0	59.8
87.5°	45.2	51.3	102.0	157.3	274.9	269.4	64.8	38.7	47.2	44.2	18.6
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°	1385.3	1385.3	1385.3	1385.3	1385.3	1385.3	1385.3	1385.3	1385.3	1385.3	1385.3
2.5°	1389.8	1399.3	1405.9	1412.9	1419.4	1421.5	1419.9	1424.5	1425.0	1425.5	1426.0
5°	1397.8	1410.9	1423.5	1430.5	1433.5	1431.0	1422.5	1417.9	1413.9	1410.9	1411.9
7.5°	1408.9	1427.5	1439.0	1442.1	1434.0	1422.5	1401.4	1384.8	1374.2	1367.2	1366.7
10°	1426.0	1444.1	1453.6	1445.1	1423.0	1394.8	1361.6	1330.5	1306.9	1299.8	1299.3
12.5°	1447.6	1468.2	1467.7	1442.6	1403.9	1353.6	1299.8	1263.6	1231.5	1215.4	1221.9
15°	1475.7	1491.3	1476.7	1431.5	1370.2	1301.3	1235.0	1185.7	1149.5	1132.4	1133.4
17.5°	1508.4	1522.0	1483.3	1411.9	1322.9	1234.5	1157.6	1110.8	1082.2	1069.6	1068.6
20°	1549.1	1553.1	1483.3	1377.7	1262.1	1156.6	1083.2	1050.5	1034.4	1027.9	1029.9
22.5°	1592.9	1584.8	1475.2	1329.5	1182.2	1075.1	1025.9	1011.3	1003.3	1002.3	1003.3
25°	1642.1	1619.5	1458.7	1264.1	1098.8	1004.8	976.1	978.6	980.1	980.1	983.7
27.5°	1702.4	1657.2	1431.0	1181.7	1001.3	939.4	931.4	949.0	957.0	958.5	961.0
30°	1781.8	1698.4	1385.3	1078.7	918.3	880.6	894.7	918.3	927.4	932.9	931.9
32.5°	1876.3	1743.6	1323.4	975.6	851.5	839.4	856.5	880.6	890.7	893.7	889.7
35°	1987.4	1794.9	1242.0	879.1	793.2	800.2	820.3	827.8	836.9	836.9	838.9
37.5°	2107.1	1836.1	1142.5	790.6	747.9	773.6	788.1	781.1	777.1	772.1	774.6
40°	2228.7	1866.8	1013.3	703.2	702.7	745.9	749.9	729.8	713.7	708.7	706.2
42.5°	2334.7	1885.9	896.7	635.3	660.0	718.8	721.8	689.6	664.0	648.9	643.9
45°	2459.9	1908.0	782.6	579.0	620.3	697.2	704.7	661.5	623.8	592.1	584.1
47.5°	2631.3	1958.3	692.6	535.3	591.6	683.6	694.1	638.3	588.6	547.4	540.8
50°	2824.8	2027.1	622.8	505.7	569.5	671.5	684.6	614.7	555.9	510.2	505.2
52.5°	3002.3	2064.3	562.5	479.0	547.9	649.4	672.0	597.6	523.7	473.0	468.5
55°	3099.3	2004.0	503.1	452.9	518.2	620.8	654.4	574.0	492.6	453.4	446.8
57.5°	3112.3	1879.4	449.4	424.7	487.1	585.6	621.8	545.4	472.5	439.8	434.3
60°	3011.3	1693.4	407.6	401.6	455.4	545.9	585.1	520.2	451.9	424.7	419.2
62.5°	2760.0	1491.3	378.5	380.5	423.2	504.1	557.9	496.1	432.3	408.1	403.1
65°	2327.7	1231.0	350.3	358.9	394.6	471.5	533.3	476.0	412.7	395.6	391.1
67.5°	1617.0	888.7	327.2	336.3	367.4	438.3	504.6	454.4	390.5	381.5	374.5
70°	895.2	546.9	300.1	310.6	339.3	401.1	472.5	421.7	358.4	354.4	344.3
72.5°	470.5	348.3	269.4	281.0	301.1	353.4	423.2	386.0	326.7	309.6	296.6
74°	367.4	285.5	248.8	260.9	274.4	325.2	394.1	360.4	304.1	284.0	273.9
75°	320.2	254.3	231.2	246.8	258.9	306.1	371.4	342.3	291.5	272.4	263.4
77.5°	226.2	190.5	189.0	207.6	214.1	268.4	334.8	311.6	259.9	239.8	231.2
80°	158.8	142.7	149.8	161.3	170.4	237.2	310.6	269.4	213.1	189.5	186.5
82.5°	103.5	93.5	107.1	117.6	120.6	174.9	250.8	204.6	155.3	126.2	117.1
85°	47.8	46.7	61.3	59.8	59.3	85.4	148.8	119.6	89.5	66.9	62.8
87.5°	12.1	11.6	15.1	12.6	15.1	13.1	13.6	3.5	0.5	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)