

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: P451316

Luminaire Tested: **GALN-SA2A-830-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451316
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2A-830-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7478 lumens
Efficiency: N/A
Efficacy: 118.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 63
Input Voltage (V): NR
Input Current (A_{in}): 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

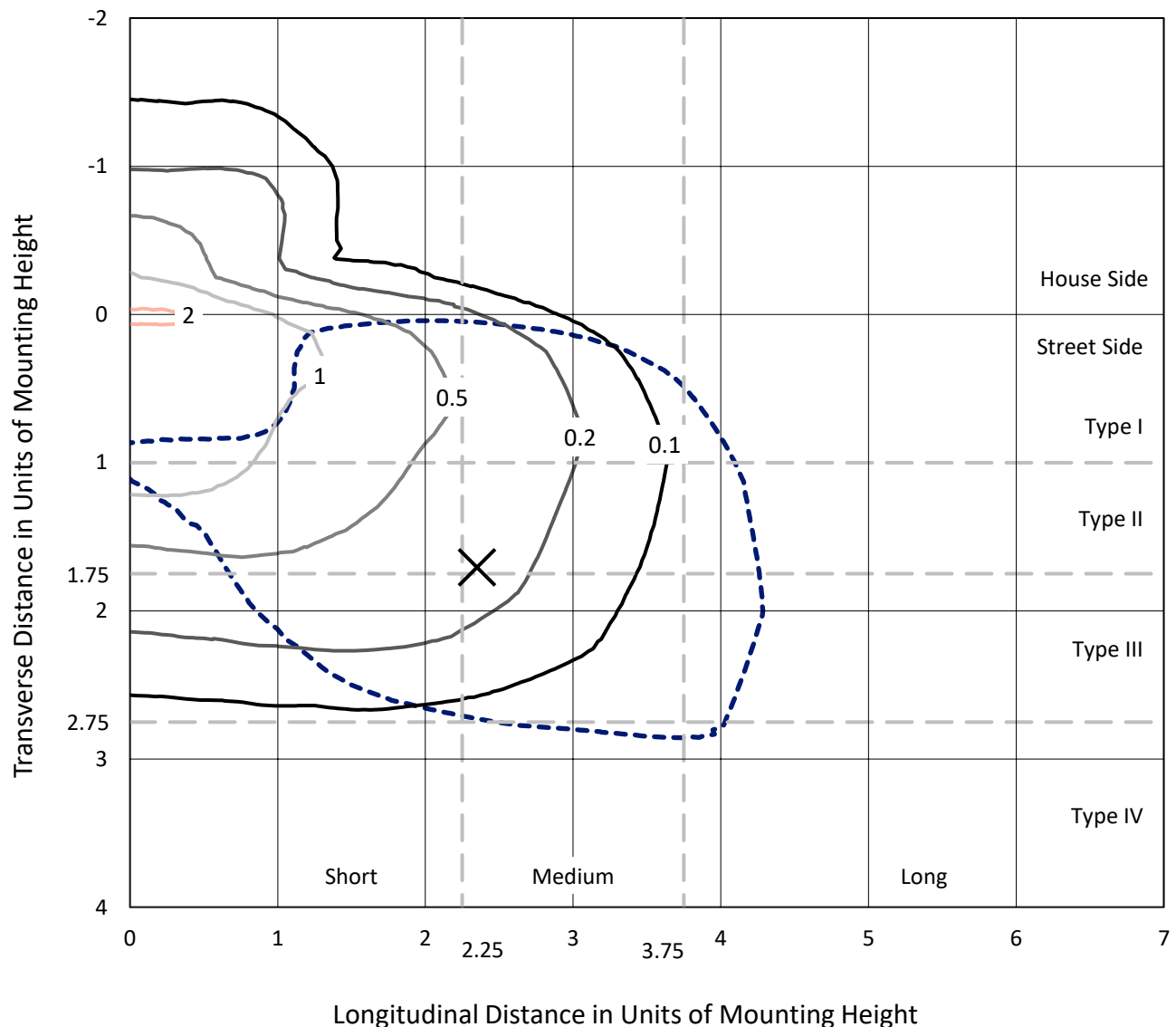


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

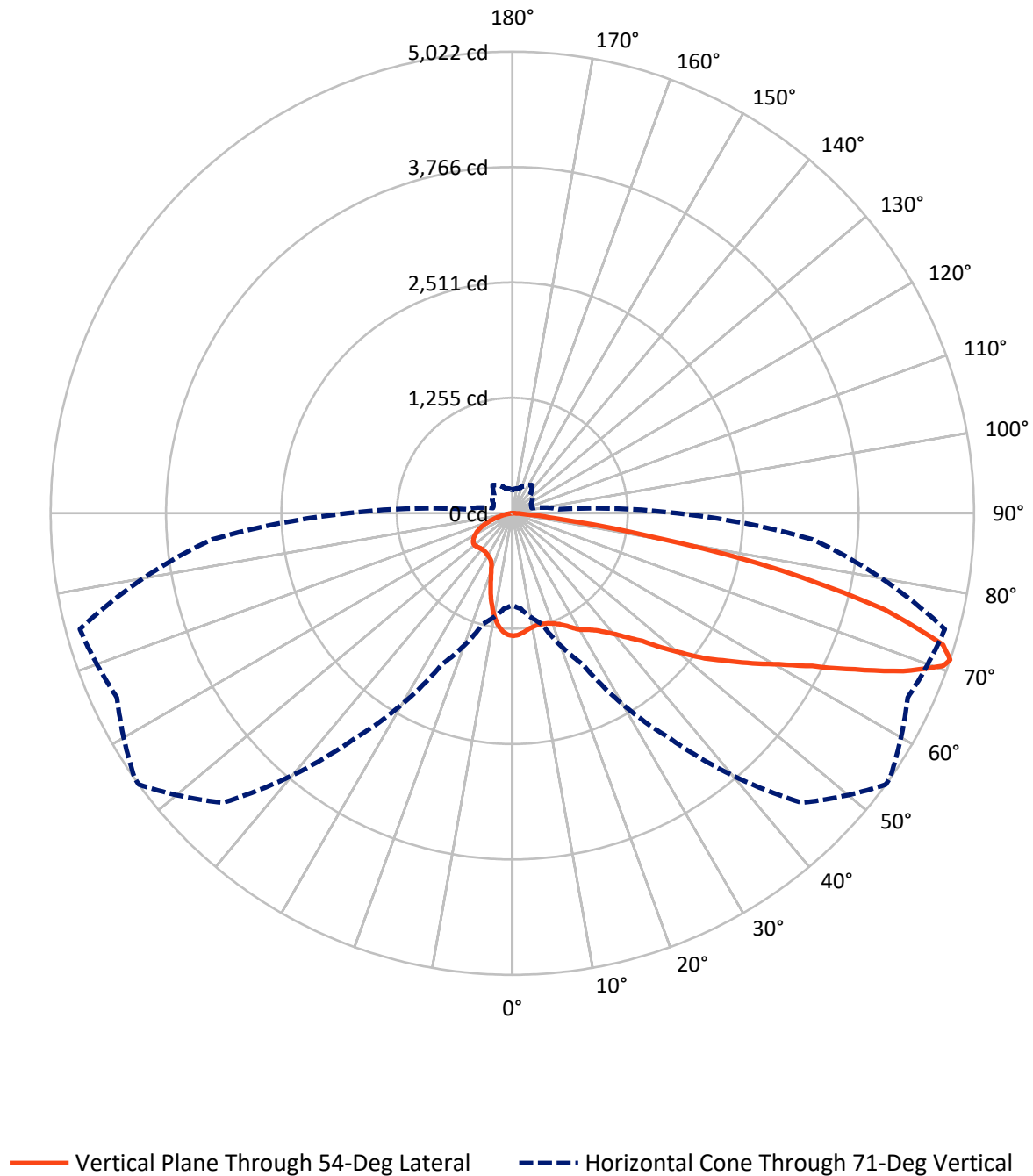


Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1350.1	0.0	1350.1
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	6127.9	0.0	6127.9
	% Fixture	81.9	0.0	81.9
Total	Lumens	7478.0	0.0	7478.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.9	1.6
10°-20°	313.9	4.2
20°-30°	522.7	7.0
30°-40°	773.0	10.3
40°-50°	1088.7	14.6
50°-60°	1457.8	19.5
60°-70°	1837.5	24.6
70°-80°	1255.0	16.8
80°-90°	110.4	1.5
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°	7478.0	100.0
0°-180°	7478.0	100.0

Coefficient of Utilization



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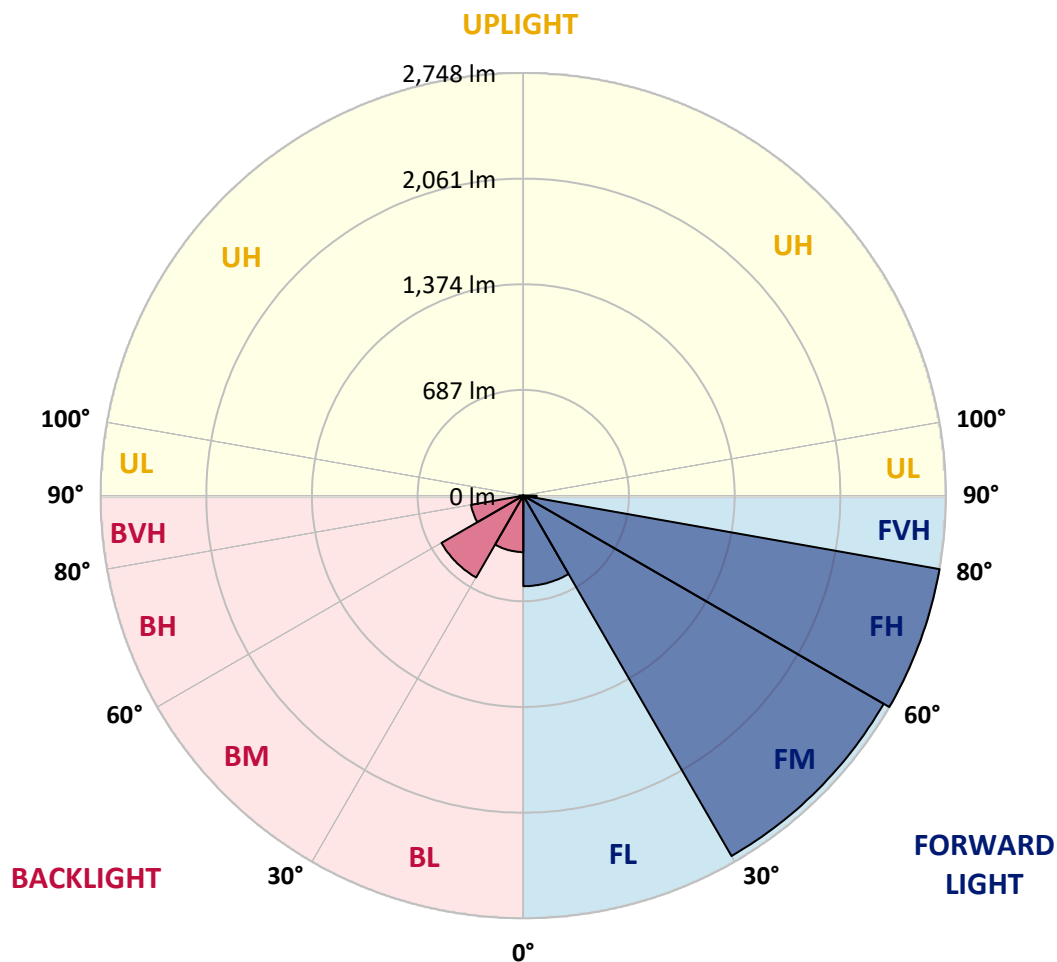
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	588.6	7.9			
FM	(30°-60°)	2705.3	36.2			
FH	(60°-80°)	2747.7	36.7			G2/5000
FVH	(80°-90°)	86.3	1.2			G1/100
BL	(0°-30°)	366.9	4.9	B1/500		
BM	(30°-60°)	614.3	8.2	B1/1000		
BH	(60°-80°)	344.8	4.6	B1/500		G1/500
BVH	(80°-90°)	24.1	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	1334.2	1334.2	1334.2	1334.2	1334.2	1334.2	1334.2	1334.2	1334.2	1334.2	1334.2
2.5°	1288.9	1295.0	1296.6	1300.7	1309.1	1316.0	1322.9	1322.1	1331.8	1335.8	1339.4
5°	1231.6	1233.2	1239.3	1247.3	1262.3	1281.3	1299.9	1300.3	1324.1	1343.1	1352.4
7.5°	1189.6	1194.8	1198.9	1207.4	1223.1	1243.7	1273.2	1275.6	1318.0	1355.6	1375.4
10°	1162.1	1168.2	1172.6	1183.1	1198.9	1221.9	1253.8	1258.2	1313.6	1375.4	1410.1
12.5°	1137.1	1143.1	1147.2	1160.9	1181.5	1209.8	1245.7	1251.0	1315.2	1398.4	1448.1
15°	1152.4	1157.3	1155.6	1159.7	1173.4	1205.7	1249.0	1254.2	1321.3	1420.6	1485.7
17.5°	1220.7	1224.7	1211.4	1196.0	1189.6	1213.4	1259.1	1264.7	1333.4	1443.7	1524.0
20°	1321.3	1332.2	1303.1	1268.7	1237.6	1240.9	1280.1	1286.1	1350.3	1466.7	1563.2
22.5°	1452.1	1460.2	1424.7	1368.1	1310.8	1281.3	1311.6	1315.2	1375.8	1496.6	1606.0
25°	1606.0	1610.9	1561.6	1488.9	1406.1	1350.3	1354.8	1361.2	1417.8	1530.5	1644.0
27.5°	1755.5	1770.8	1713.9	1625.0	1516.0	1423.1	1414.2	1418.2	1463.4	1549.5	1670.3
30°	1932.8	1931.6	1871.4	1768.4	1628.7	1502.2	1470.3	1469.5	1488.1	1558.8	1689.2
32.5°	2074.2	2090.7	2031.8	1919.5	1757.5	1584.2	1509.1	1507.5	1507.1	1574.9	1717.5
35°	2235.0	2237.4	2183.3	2070.1	1896.9	1687.2	1563.2	1555.1	1545.8	1609.7	1755.9
37.5°	2378.8	2390.1	2340.4	2213.5	2033.8	1794.3	1637.5	1632.3	1604.0	1669.9	1817.3
40°	2491.0	2499.5	2469.6	2348.9	2168.7	1909.8	1732.1	1722.4	1688.0	1768.4	1899.3
42.5°	2527.8	2545.2	2556.9	2497.5	2323.8	2046.7	1848.4	1836.3	1810.0	1917.9	1993.8
45°	2530.6	2558.1	2619.9	2622.7	2479.7	2210.7	1984.1	1975.6	1973.6	2109.3	2126.7
47.5°	2509.2	2537.1	2640.9	2697.1	2618.7	2376.3	2180.0	2166.7	2167.9	2346.0	2275.8
50°	2457.5	2490.6	2616.7	2744.7	2727.3	2548.4	2386.8	2382.4	2407.4	2616.3	2430.5
52.5°	2360.2	2400.2	2591.6	2774.6	2808.1	2696.6	2621.9	2609.4	2672.8	2909.5	2599.7
55°	2090.7	2150.9	2499.9	2791.2	2884.9	2838.4	2833.6	2856.2	2940.2	3229.4	2785.9
57.5°	1950.2	1995.4	2300.8	2794.0	2981.8	3003.2	3080.8	3086.4	3233.5	3569.1	2996.4
60°	1873.4	1913.4	2191.7	2775.4	3117.1	3207.2	3333.6	3353.8	3519.9	3937.1	3214.5
62.5°	1806.4	1840.7	2126.3	2711.2	3269.8	3509.8	3661.2	3670.9	3845.0	4343.5	3429.8
65°	1648.4	1687.6	1994.6	2647.0	3401.5	3887.8	4095.9	4084.6	4191.2	4694.1	3564.7
67.5°	1435.6	1485.3	1748.6	2425.2	3466.5	4301.1	4585.4	4571.3	4532.9	4923.9	3603.5
70°	1163.7	1190.4	1434.0	2041.9	3206.8	4518.0	4972.0	4957.0	4744.6	4954.2	3420.1
71°	1001.3	1043.0	1248.6	1813.7	2990.7	4451.7	5021.7	5017.6	4745.0	4870.6	3281.9
72.5°	781.6	807.1	988.8	1405.3	2541.9	4075.3	4898.9	4914.2	4642.0	4638.3	2997.2
75°	494.4	505.7	620.4	827.3	1394.8	2886.1	4181.9	4223.5	4121.7	3796.6	2228.9
77.5°	287.2	301.7	371.6	487.5	602.7	1566.4	2992.3	3037.6	2863.9	2090.3	912.5
80°	167.2	183.4	244.8	283.2	276.7	581.3	1523.6	1600.8	1240.1	527.9	256.1
82.5°	92.9	103.8	172.1	172.5	147.4	189.8	479.5	501.7	353.8	212.9	104.6
85°	67.5	76.3	111.1	100.6	70.7	81.6	166.8	174.9	143.0	89.7	33.9
87.5°	23.8	33.9	61.0	48.5	19.4	17.0	48.1	39.2	36.4	25.0	7.7
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°	1334.2	1334.2	1334.2	1334.2	1334.2	1334.2	1334.2	1334.2	1334.2	1334.2	1334.2
2.5°	1341.5	1342.3	1338.2	1331.0	1323.7	1314.4	1303.9	1295.8	1292.2	1291.8	1291.4
5°	1356.0	1358.0	1342.7	1320.0	1295.0	1264.3	1238.1	1208.2	1200.5	1188.4	1192.0
7.5°	1379.4	1378.2	1347.9	1299.9	1241.3	1176.2	1121.3	1089.4	1056.3	1047.0	1047.4
10°	1413.0	1405.3	1347.9	1258.7	1160.9	1064.4	987.6	939.1	912.9	891.1	883.0
12.5°	1448.5	1429.1	1335.0	1200.9	1057.5	939.1	856.7	791.3	774.3	756.6	757.0
15°	1482.4	1450.1	1309.5	1119.7	946.0	805.4	725.5	686.3	681.0	683.0	682.6
17.5°	1513.1	1465.1	1270.8	1029.2	815.9	690.7	648.3	651.1	665.3	675.4	676.6
20°	1544.2	1473.9	1213.0	908.0	693.1	621.2	622.9	645.1	666.5	680.2	682.2
22.5°	1573.7	1478.0	1145.1	790.9	604.3	591.8	615.6	639.4	660.4	673.8	675.8
25°	1593.1	1468.7	1049.0	668.5	560.7	581.3	606.3	626.5	644.3	658.0	661.2
27.5°	1598.4	1438.8	929.9	569.5	540.5	571.2	594.2	609.1	622.9	635.8	638.2
30°	1595.5	1394.8	799.0	511.4	528.7	559.4	577.2	588.1	604.7	614.8	616.8
32.5°	1591.1	1343.5	662.4	480.3	519.1	548.5	559.0	568.7	568.3	564.3	567.1
35°	1592.7	1282.1	551.8	461.7	510.6	540.5	549.3	537.2	502.5	500.9	499.3
37.5°	1601.2	1221.5	471.4	448.8	506.1	539.2	544.1	488.4	457.7	443.5	439.9
40°	1623.0	1150.8	418.5	439.1	505.7	548.5	520.3	463.7	404.7	377.3	375.3
42.5°	1652.1	1081.3	386.2	433.0	510.6	562.7	510.6	429.0	364.8	348.6	346.2
45°	1695.3	1001.8	368.4	430.2	517.8	567.9	507.3	403.5	348.6	335.7	335.7
47.5°	1744.2	925.8	358.7	428.2	527.1	564.3	478.7	395.4	340.9	342.5	350.2
50°	1792.6	860.0	351.4	423.7	535.2	562.3	466.9	395.0	342.9	363.5	377.3
52.5°	1848.8	813.5	342.5	416.5	535.2	549.3	463.3	403.1	348.6	354.7	360.7
55°	1916.7	799.0	331.2	400.7	525.5	517.0	461.3	414.8	352.6	338.5	340.9
57.5°	2006.3	822.4	320.3	380.9	503.3	483.5	460.5	418.1	343.3	331.6	329.2
60°	2110.5	868.9	317.1	360.7	473.0	454.8	455.6	408.8	330.4	318.3	320.3
62.5°	2183.7	896.7	315.1	345.4	439.9	423.3	443.9	397.5	324.8	314.3	316.3
65°	2183.7	862.8	296.5	321.9	397.1	385.4	429.8	383.3	317.5	305.4	303.4
67.5°	2100.8	763.8	268.2	286.8	349.8	342.1	410.0	366.4	306.6	297.3	292.4
70°	1885.1	579.2	232.7	245.6	290.0	296.9	384.5	343.3	288.4	277.1	269.8
71°	1790.2	504.5	217.7	224.6	267.0	277.1	372.4	333.6	280.3	264.2	251.2
72.5°	1607.2	424.9	195.1	197.9	228.2	246.4	347.0	315.1	265.0	242.0	227.4
75°	1221.1	310.2	157.1	155.5	168.8	195.5	293.7	280.7	232.3	201.2	192.7
77.5°	527.5	168.8	117.5	118.8	114.7	148.2	231.0	241.1	199.1	163.6	155.9
80°	160.0	97.3	80.4	82.0	76.7	99.4	162.8	189.0	160.0	127.2	116.7
82.5°	82.0	58.2	54.9	54.1	48.9	56.1	98.6	129.3	114.3	79.6	70.3
85°	35.5	31.1	27.1	26.3	23.0	20.2	35.1	64.6	60.6	44.4	42.4
87.5°	8.9	8.1	5.3	4.8	2.8	0.4	0.0	0.0	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)