

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: P451303

Luminaire Tested: **GALN-SA2A-830-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451303
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)
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-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7153 lumens
Efficiency: N/A
Efficacy: 113.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

Input Watts (W): 63
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

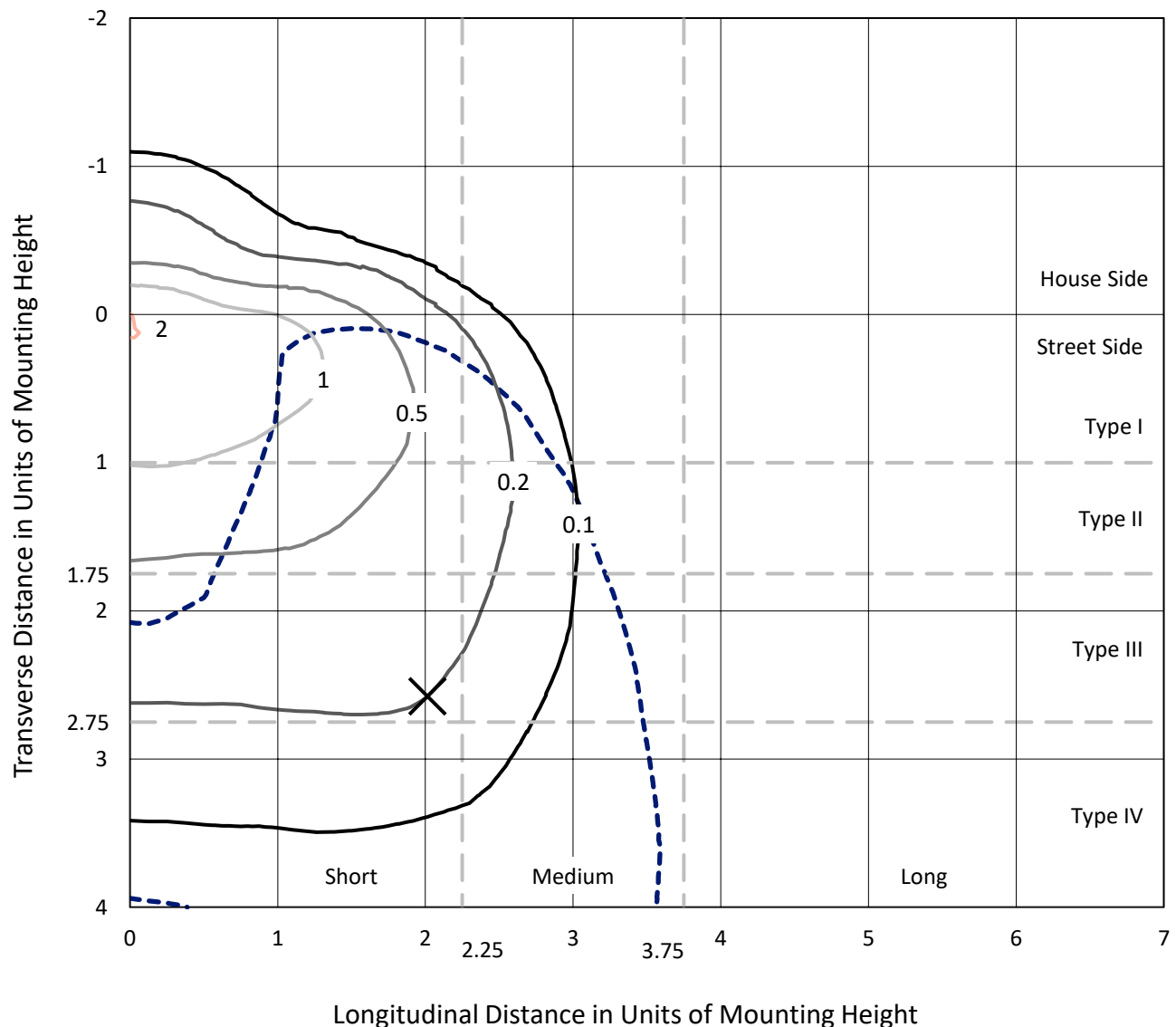


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

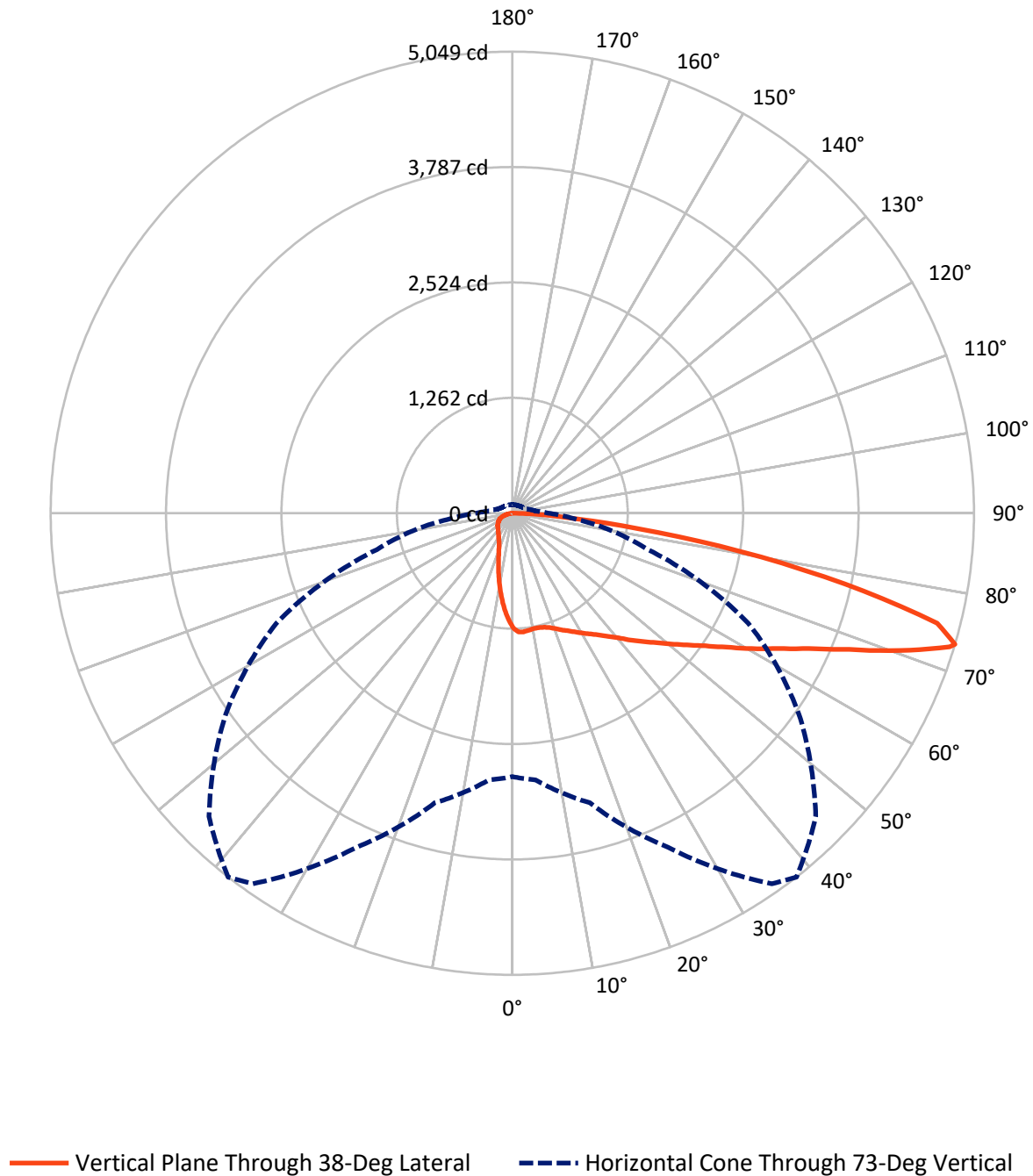


Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	961.6	0.0	961.6
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	6191.4	0.0	6191.4
	% Fixture	86.6	0.0	86.6
Total	Lumens	7153.0	0.0	7153.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.7	1.5
10°-20°	281.3	3.9
20°-30°	438.0	6.1
30°-40°	642.5	9.0
40°-50°	953.0	13.3
50°-60°	1350.3	18.9
60°-70°	1712.8	23.9
70°-80°	1425.8	19.9
80°-90°	239.6	3.3
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°	7153.0	100.0
0°-180°	7153.0	100.0

Coefficient of Utilization



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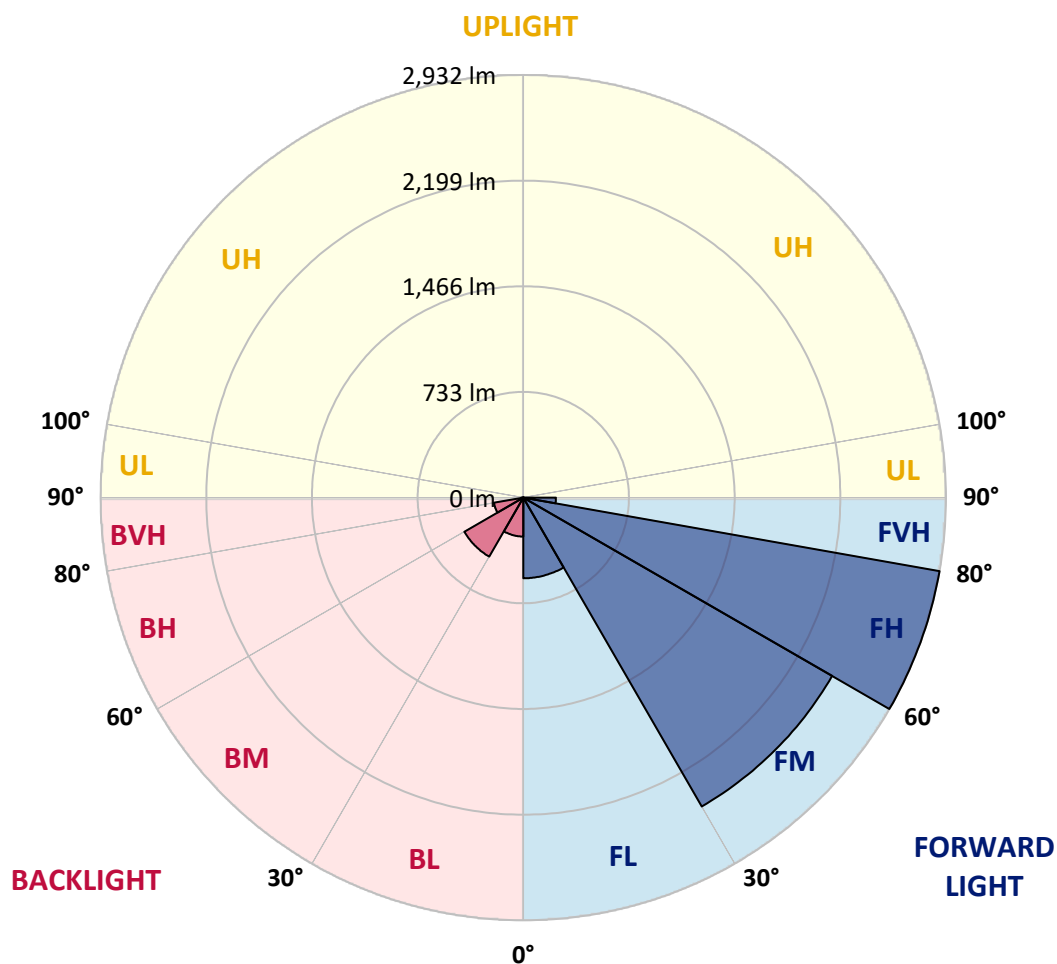
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	559.2	7.8			
FM	(30°-60°)	2473.7	34.6			
FH	(60°-80°)	2932.0	41.0			G2/5000
FVH	(80°-90°)	226.6	3.2			G3/500
BL	(0°-30°)	269.8	3.8	B1/500		
BM	(30°-60°)	472.1	6.6	B1/1000		
BH	(60°-80°)	206.7	2.9	B1/500		G1/500
BVH	(80°-90°)	13.0	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-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	1256.7	1256.7	1256.7	1256.7	1256.7	1256.7	1256.7	1256.7	1256.7	1256.7	1256.7
2.5°	1307.2	1313.6	1310.4	1305.9	1303.1	1300.3	1296.2	1284.5	1275.2	1265.1	1249.4
5°	1316.8	1320.9	1318.1	1312.4	1305.9	1303.1	1295.4	1280.1	1265.1	1248.2	1224.7
7.5°	1311.2	1312.8	1309.6	1302.7	1297.1	1291.8	1282.9	1266.0	1247.8	1227.2	1196.5
10°	1291.0	1297.1	1297.1	1291.4	1285.7	1282.9	1274.0	1257.9	1241.3	1217.9	1181.5
12.5°	1274.4	1280.9	1286.1	1284.5	1284.1	1284.1	1277.3	1265.1	1245.8	1223.5	1180.3
15°	1263.1	1270.8	1282.1	1288.6	1292.6	1293.8	1291.0	1280.5	1260.7	1234.8	1185.2
17.5°	1260.7	1270.0	1290.6	1304.7	1315.2	1314.8	1314.0	1299.5	1277.7	1251.0	1191.2
20°	1271.6	1283.7	1312.4	1334.6	1350.0	1347.1	1342.7	1323.7	1298.3	1268.4	1196.9
22.5°	1304.3	1316.8	1348.4	1372.6	1387.5	1387.5	1374.2	1349.2	1322.1	1288.6	1204.6
25°	1351.2	1364.9	1398.4	1423.1	1430.0	1424.7	1411.4	1381.1	1350.0	1317.7	1220.7
27.5°	1408.5	1425.1	1456.2	1476.8	1474.8	1470.7	1457.0	1418.2	1387.1	1357.6	1248.2
30°	1480.0	1492.2	1524.5	1529.3	1522.1	1521.2	1501.9	1463.1	1434.0	1411.4	1287.4
32.5°	1547.5	1558.4	1584.3	1586.3	1573.4	1575.0	1556.8	1521.2	1504.7	1496.6	1353.2
35°	1619.0	1624.7	1646.9	1644.4	1636.0	1634.7	1627.5	1593.5	1598.8	1613.3	1446.5
37.5°	1678.8	1690.1	1702.6	1704.6	1704.2	1708.3	1713.1	1697.0	1727.3	1772.9	1568.9
40°	1733.7	1743.4	1762.0	1768.5	1784.2	1792.3	1808.8	1809.3	1879.1	1954.3	1719.6
42.5°	1770.9	1787.4	1822.2	1833.9	1872.3	1896.5	1921.1	1947.4	2048.8	2145.3	1897.3
45°	1803.2	1825.0	1882.8	1919.1	1971.2	2000.7	2052.8	2107.8	2253.6	2380.0	2077.9
47.5°	1852.1	1871.5	1937.7	2001.9	2080.7	2114.6	2192.6	2274.6	2465.3	2603.8	2250.8
50°	1919.9	1931.6	1999.1	2103.7	2204.3	2247.9	2350.9	2469.3	2691.5	2824.8	2402.6
52.5°	2006.8	2011.6	2065.4	2204.7	2337.2	2391.3	2527.9	2666.0	2889.4	3016.6	2523.0
55°	2109.4	2101.3	2143.3	2311.8	2489.1	2559.8	2706.4	2865.2	3112.0	3171.7	2610.7
57.5°	2210.8	2198.2	2231.8	2441.8	2676.5	2761.7	2932.6	3070.4	3310.7	3316.8	2672.1
60°	2318.2	2308.9	2348.9	2594.5	2906.4	3007.3	3165.3	3283.2	3503.0	3417.7	2681.8
62.5°	2428.5	2413.5	2470.5	2766.2	3165.3	3257.0	3410.1	3509.4	3691.6	3455.3	2588.5
65°	2535.5	2528.7	2616.7	2970.2	3460.2	3564.4	3713.0	3780.5	3842.7	3398.8	2357.0
67.5°	2649.4	2663.2	2803.8	3242.4	3844.7	3975.6	4136.0	4072.5	3885.9	3130.9	1985.0
70°	2823.1	2832.0	3049.4	3599.1	4340.3	4498.3	4575.8	4176.3	3677.5	2622.4	1492.2
72.5°	2897.9	2937.1	3268.7	3973.6	4903.4	5000.0	4723.7	3944.9	3063.5	1781.4	784.0
73°	2881.3	2928.2	3278.8	4030.5	4947.5	5048.9	4692.2	3825.7	2847.8	1534.2	672.2
75°	2674.9	2732.7	3147.5	3982.9	4861.8	4801.2	4185.6	3260.6	1924.4	697.6	306.2
77.5°	2110.6	2127.2	2493.9	3216.2	3828.6	3716.3	3132.6	2037.9	786.1	259.3	173.7
80°	1058.7	1119.7	1405.7	1842.4	2560.2	2523.4	1977.3	963.8	327.6	152.3	115.1
82.5°	509.4	552.6	684.7	898.4	1414.6	1381.1	979.2	526.7	208.0	88.9	67.9
85°	328.0	360.3	435.9	428.6	581.7	555.4	439.9	398.7	123.2	46.5	47.3
87.5°	216.5	237.1	284.4	227.4	211.7	191.5	194.3	224.6	24.2	17.8	6.5
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°	1256.7	1256.7	1256.7	1256.7	1256.7	1256.7	1256.7	1256.7	1256.7	1256.7	1256.7
2.5°	1242.9	1237.7	1220.3	1203.3	1187.2	1171.8	1161.7	1148.4	1139.5	1141.9	1145.6
5°	1211.8	1200.1	1169.4	1139.5	1111.2	1077.7	1050.7	1028.8	1012.3	1006.2	1005.0
7.5°	1179.1	1159.3	1115.3	1064.0	1015.9	974.3	926.2	902.4	874.5	864.8	861.6
10°	1159.3	1132.7	1070.8	999.4	927.0	858.0	805.9	763.4	725.1	717.8	714.2
12.5°	1153.7	1118.5	1035.3	943.2	847.1	762.2	685.1	629.3	592.2	583.7	571.2
15°	1150.4	1106.8	1002.2	886.7	764.7	661.3	580.1	515.0	481.1	458.5	458.9
17.5°	1147.6	1093.5	965.0	824.8	693.6	574.4	484.7	426.2	395.1	382.9	381.7
20°	1143.6	1077.7	922.2	759.8	612.4	495.2	414.0	370.4	349.4	339.3	338.9
22.5°	1141.9	1062.4	880.2	693.6	540.5	434.2	367.2	336.5	323.2	316.3	316.3
25°	1146.0	1051.5	836.2	630.6	476.7	382.1	334.9	313.9	306.2	302.6	301.3
27.5°	1158.5	1046.6	792.5	567.5	418.1	346.6	313.1	298.5	292.9	290.0	290.4
30°	1182.3	1046.2	749.7	505.3	374.5	319.5	295.7	285.6	281.1	279.5	279.1
32.5°	1220.7	1055.1	707.7	454.0	337.7	296.9	279.5	272.3	270.2	269.0	268.6
35°	1285.7	1080.1	666.1	407.2	309.4	276.7	264.2	260.5	257.7	258.9	259.3
37.5°	1373.4	1123.4	626.5	370.4	288.0	261.8	251.3	248.0	246.4	247.6	248.8
40°	1490.9	1185.6	593.4	340.9	272.7	249.2	239.9	237.1	235.5	237.5	237.9
42.5°	1620.6	1257.5	565.9	317.9	260.1	238.7	229.8	226.6	225.4	226.6	227.0
45°	1753.9	1341.1	551.8	301.3	249.6	231.1	221.8	218.1	215.3	214.5	215.7
47.5°	1885.2	1413.8	551.4	291.2	241.2	224.2	214.1	210.0	206.4	204.4	204.0
50°	1992.2	1471.6	561.1	286.8	233.9	216.5	206.4	202.4	197.5	193.5	194.3
52.5°	2073.0	1509.1	565.5	284.8	229.8	208.4	198.3	194.7	189.0	183.8	183.8
55°	2125.1	1518.0	554.6	282.8	226.6	200.0	189.0	185.8	180.2	174.9	174.9
57.5°	2142.9	1490.5	515.4	277.9	223.4	192.7	179.8	176.9	172.5	167.2	166.4
60°	2101.7	1397.6	446.8	263.4	216.9	185.0	169.7	168.4	166.8	162.4	162.0
62.5°	1943.0	1200.5	372.0	244.4	206.0	176.9	160.4	162.4	163.6	161.2	160.8
65°	1678.8	974.7	317.9	218.1	191.5	165.6	150.3	155.5	158.7	158.7	157.9
67.5°	1361.7	748.5	267.8	195.5	173.3	150.3	139.0	143.0	145.4	144.6	146.6
70°	967.8	506.9	218.1	169.7	150.3	132.9	124.4	124.4	122.8	122.0	122.0
72.5°	469.4	289.6	176.9	141.8	128.0	113.5	106.6	103.8	100.6	100.2	98.2
73°	392.2	259.7	168.8	136.5	122.8	110.7	103.0	98.6	96.5	94.9	94.5
75°	238.7	197.1	141.0	115.1	104.6	95.3	88.5	84.4	82.4	81.2	80.8
77.5°	157.1	147.0	109.5	88.1	80.0	74.3	71.5	67.5	66.2	64.6	64.6
80°	117.1	112.3	78.4	62.2	57.4	52.5	51.7	50.9	47.7	45.6	44.8
82.5°	75.5	80.0	53.3	41.6	36.4	32.3	32.7	33.9	30.7	27.9	27.1
85°	53.7	57.8	32.3	19.0	15.3	13.3	14.9	13.3	13.7	10.9	8.9
87.5°	8.9	15.3	5.7	2.4	1.2	0.8	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)