

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: P451071

Luminaire Tested: **GALN-SA1D-830-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451071
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-SA1D-830-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6089 lumens
Efficiency: N/A
Efficacy: 93.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 65
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

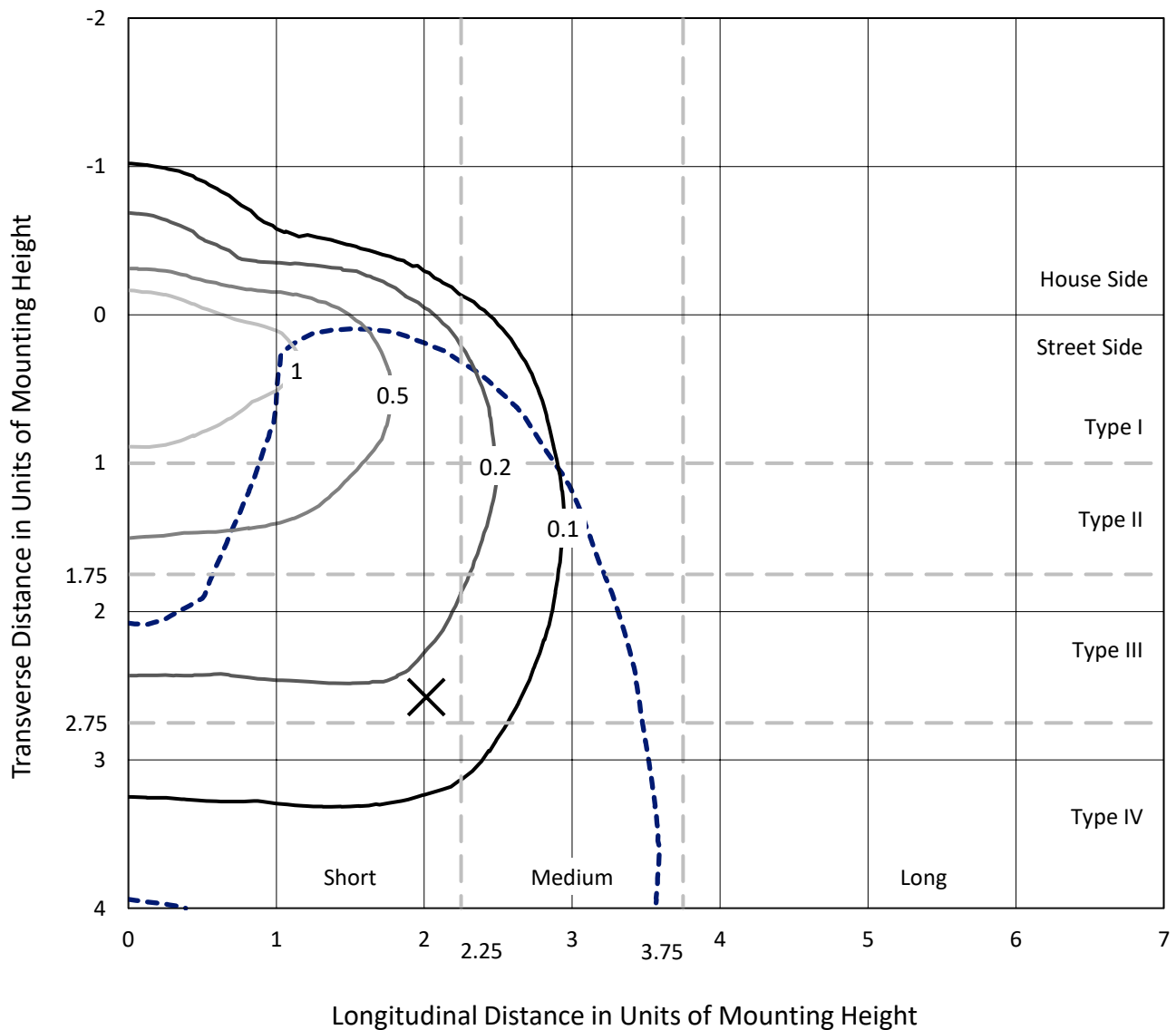


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

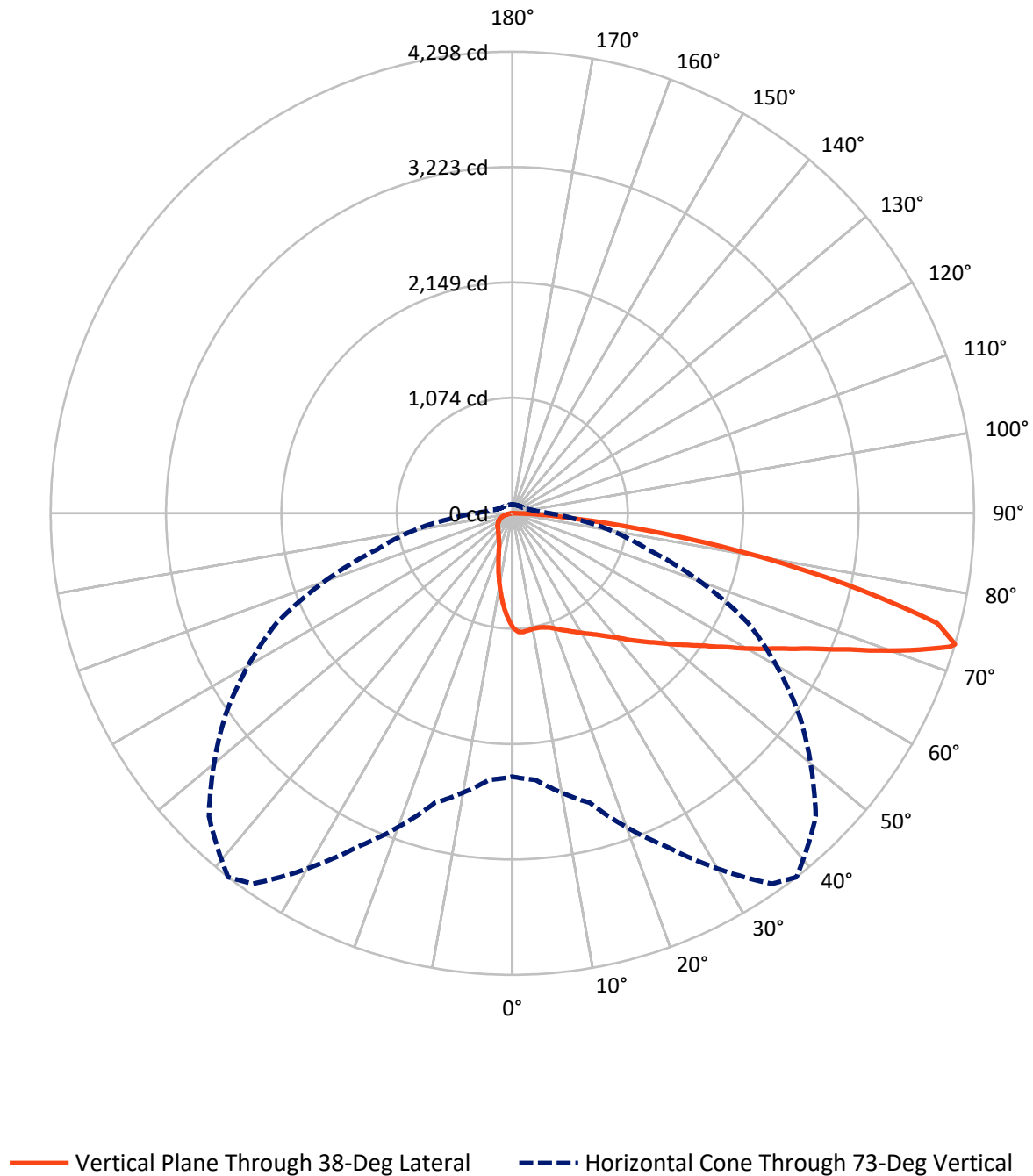


Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	818.5	0.0	818.5
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	5270.5	0.0	5270.5
	% Fixture	86.6	0.0	86.6
Total	Lumens	6089.0	0.0	6089.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.4	1.5
10°-20°	239.4	3.9
20°-30°	372.9	6.1
30°-40°	546.9	9.0
40°-50°	811.3	13.3
50°-60°	1149.4	18.9
60°-70°	1458.1	23.9
70°-80°	1213.7	19.9
80°-90°	203.9	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°	6089.0	100.0
0°-180°	6089.0	100.0

Coefficient of Utilization



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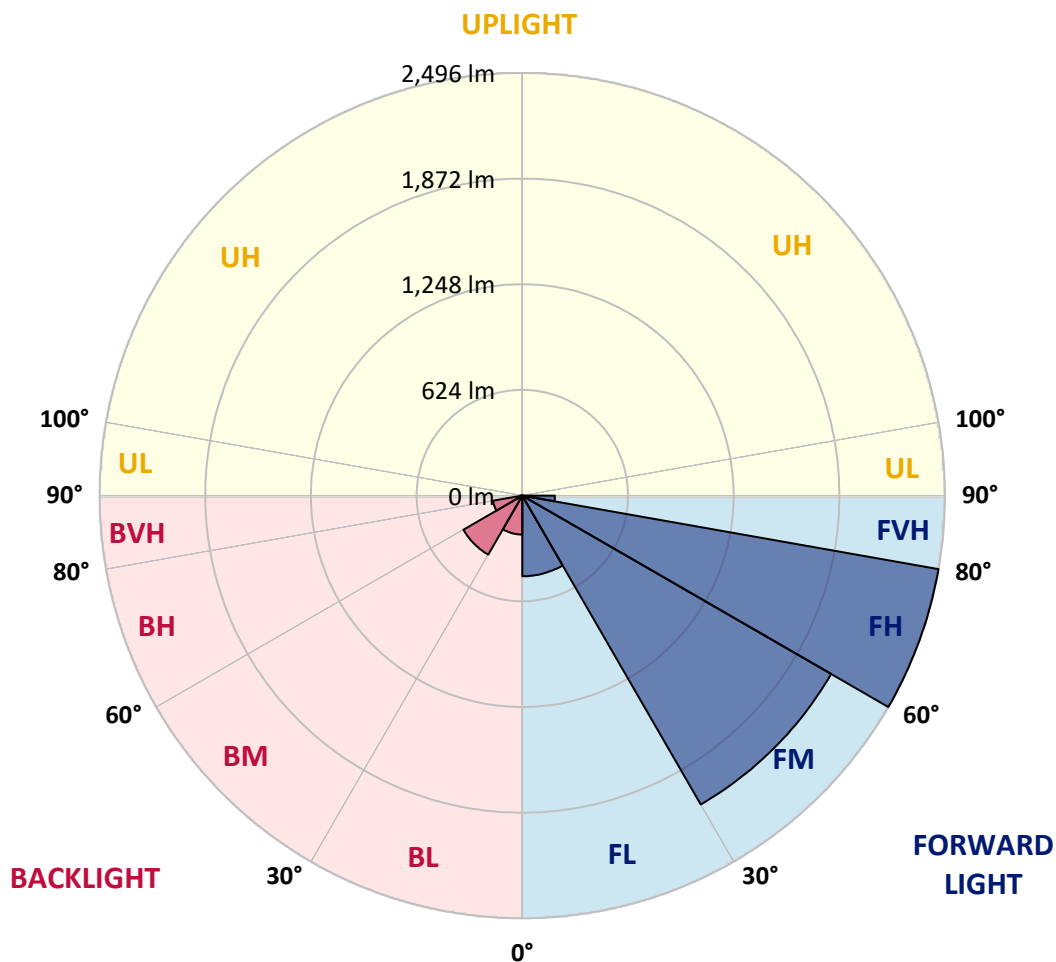
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	476.0	7.8			
FM	(30°-60°)	2105.7	34.6			
FH	(60°-80°)	2495.9	41.0			G2/5000
FVH	(80°-90°)	192.9	3.2			G2/225
BL	(0°-30°)	229.7	3.8	B1/500		
BM	(30°-60°)	401.9	6.6	B1/1000		
BH	(60°-80°)	175.9	2.9	B1/500		G1/500
BVH	(80°-90°)	11.1	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	1069.7	1069.7	1069.7	1069.7	1069.7	1069.7	1069.7	1069.7	1069.7	1069.7	1069.7
2.5°	1112.7	1118.2	1115.5	1111.7	1109.3	1106.9	1103.4	1093.5	1085.6	1077.0	1063.5
5°	1121.0	1124.4	1122.0	1117.2	1111.7	1109.3	1102.7	1089.7	1077.0	1062.5	1042.6
7.5°	1116.2	1117.5	1114.8	1108.9	1104.1	1099.6	1092.1	1077.6	1062.2	1044.6	1018.5
10°	1099.0	1104.1	1104.1	1099.3	1094.5	1092.1	1084.5	1070.8	1056.7	1036.7	1005.8
12.5°	1084.9	1090.4	1094.8	1093.5	1093.1	1093.1	1087.3	1077.0	1060.5	1041.5	1004.7
15°	1075.2	1081.8	1091.4	1096.9	1100.3	1101.4	1099.0	1090.0	1073.2	1051.2	1008.9
17.5°	1073.2	1081.1	1098.6	1110.7	1119.6	1119.2	1118.6	1106.2	1087.6	1064.9	1014.0
20°	1082.5	1092.8	1117.2	1136.1	1149.2	1146.8	1143.0	1126.8	1105.2	1079.7	1018.8
22.5°	1110.3	1121.0	1147.8	1168.4	1181.1	1181.1	1169.8	1148.5	1125.4	1096.9	1025.4
25°	1150.2	1161.9	1190.4	1211.4	1217.2	1212.8	1201.4	1175.6	1149.2	1121.7	1039.1
27.5°	1199.0	1213.1	1239.6	1257.1	1255.4	1252.0	1240.3	1207.3	1180.8	1155.7	1062.5
30°	1259.9	1270.2	1297.7	1301.8	1295.6	1295.0	1278.5	1245.4	1220.7	1201.4	1095.9
32.5°	1317.3	1326.6	1348.6	1350.3	1339.3	1340.7	1325.2	1295.0	1280.9	1274.0	1151.9
35°	1378.2	1383.0	1401.9	1399.8	1392.6	1391.6	1385.4	1356.5	1361.0	1373.4	1231.3
37.5°	1429.1	1438.7	1449.4	1451.1	1450.7	1454.2	1458.3	1444.5	1470.3	1509.2	1335.5
40°	1475.8	1484.1	1499.9	1505.4	1518.8	1525.7	1539.8	1540.1	1599.6	1663.6	1463.8
42.5°	1507.5	1521.6	1551.1	1561.1	1593.8	1614.4	1635.4	1657.7	1744.0	1826.2	1615.1
45°	1535.0	1553.5	1602.7	1633.7	1678.0	1703.1	1747.5	1794.2	1918.4	2026.0	1768.8
47.5°	1576.6	1593.1	1649.5	1704.1	1771.2	1800.1	1866.4	1936.2	2098.5	2216.5	1916.0
50°	1634.3	1644.3	1701.7	1790.8	1876.4	1913.6	2001.2	2102.0	2291.1	2404.6	2045.3
52.5°	1708.3	1712.4	1758.1	1876.8	1989.5	2035.6	2151.8	2269.4	2459.6	2567.9	2147.7
55°	1795.6	1788.7	1824.5	1967.9	2118.8	2179.0	2303.8	2439.0	2649.1	2700.0	2222.3
57.5°	1881.9	1871.3	1899.8	2078.6	2278.4	2350.9	2496.4	2613.6	2818.2	2823.4	2274.6
60°	1973.4	1965.5	1999.5	2208.6	2474.0	2560.0	2694.5	2794.9	2981.9	2909.4	2282.9
62.5°	2067.3	2054.5	2103.0	2354.7	2694.5	2772.5	2902.8	2987.4	3142.5	2941.3	2203.4
65°	2158.4	2152.5	2227.5	2528.4	2945.5	3034.2	3160.7	3218.1	3271.1	2893.2	2006.4
67.5°	2255.3	2267.0	2386.7	2760.1	3272.8	3384.2	3520.7	3466.7	3307.9	2665.2	1689.7
70°	2403.2	2410.8	2595.8	3063.8	3694.7	3829.2	3895.2	3555.1	3130.5	2232.3	1270.2
72.5°	2466.8	2500.2	2782.5	3382.5	4174.1	4256.2	4021.0	3358.1	2607.8	1516.4	667.4
73°	2452.7	2492.6	2791.1	3431.0	4211.5	4297.8	3994.2	3256.7	2424.2	1306.0	572.2
75°	2277.0	2326.2	2679.3	3390.4	4138.6	4087.1	3563.0	2775.6	1638.1	593.8	260.6
77.5°	1796.6	1810.7	2123.0	2737.8	3259.1	3163.5	2666.6	1734.8	669.1	220.8	147.9
80°	901.2	953.2	1196.6	1568.3	2179.4	2148.1	1683.2	820.4	278.9	129.6	98.0
82.5°	433.6	470.4	582.8	764.7	1204.2	1175.6	833.5	448.4	177.1	75.6	57.8
85°	279.2	306.7	371.0	364.8	495.2	472.8	374.5	339.4	104.9	39.5	40.2
87.5°	184.3	201.8	242.1	193.6	180.2	163.0	165.4	191.2	20.6	15.1	5.5
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°	1069.7	1069.7	1069.7	1069.7	1069.7	1069.7	1069.7	1069.7	1069.7	1069.7	1069.7
2.5°	1058.0	1053.6	1038.8	1024.3	1010.6	997.5	988.9	977.6	970.0	972.1	975.2
5°	1031.6	1021.6	995.5	970.0	945.9	917.4	894.4	875.8	861.7	856.5	855.5
7.5°	1003.7	986.9	949.4	905.7	864.8	829.4	788.5	768.2	744.4	736.2	733.4
10°	986.9	964.2	911.6	850.7	789.1	730.3	686.0	649.9	617.2	611.0	607.9
12.5°	982.1	952.1	881.3	802.9	721.1	648.9	583.2	535.7	504.1	496.9	486.2
15°	979.3	942.2	853.1	754.8	650.9	562.9	493.8	438.4	409.5	390.3	390.6
17.5°	976.9	930.8	821.5	702.2	590.4	489.0	412.6	362.8	336.3	326.0	324.9
20°	973.5	917.4	785.0	646.8	521.3	421.6	352.5	315.3	297.4	288.8	288.5
22.5°	972.1	904.3	749.3	590.4	460.1	369.6	312.6	286.4	275.1	269.2	269.2
25°	975.5	895.1	711.8	536.8	405.7	325.3	285.1	267.2	260.6	257.5	256.5
27.5°	986.2	890.9	674.6	483.1	355.9	295.0	266.5	254.1	249.3	246.9	247.2
30°	1006.5	890.6	638.2	430.2	318.8	272.0	251.7	243.1	239.3	237.9	237.6
32.5°	1039.1	898.2	602.4	386.5	287.5	252.7	237.9	231.8	230.0	229.0	228.7
35°	1094.5	919.5	567.0	346.6	263.4	235.5	224.9	221.8	219.4	220.4	220.8
37.5°	1169.1	956.3	533.3	315.3	245.2	222.8	213.9	211.1	209.8	210.8	211.8
40°	1269.2	1009.2	505.1	290.2	232.1	212.2	204.3	201.8	200.5	202.2	202.5
42.5°	1379.5	1070.4	481.7	270.6	221.4	203.2	195.7	192.9	191.9	192.9	193.2
45°	1493.0	1141.6	469.7	256.5	212.5	196.7	188.8	185.7	183.3	182.6	183.6
47.5°	1604.8	1203.5	469.4	247.9	205.3	190.8	182.2	178.8	175.7	174.0	173.6
50°	1695.9	1252.7	477.6	244.1	199.1	184.3	175.7	172.3	168.1	164.7	165.4
52.5°	1764.7	1284.6	481.4	242.4	195.7	177.4	168.8	165.7	160.9	156.5	156.5
55°	1809.0	1292.2	472.1	240.7	192.9	170.2	160.9	158.2	153.4	148.9	148.9
57.5°	1824.2	1268.8	438.8	236.6	190.2	164.0	153.0	150.6	146.8	142.4	141.7
60°	1789.1	1189.7	380.3	224.2	184.7	157.5	144.4	143.4	142.0	138.2	137.9
62.5°	1653.9	1021.9	316.7	208.0	175.4	150.6	136.5	138.2	139.3	137.2	136.9
65°	1429.1	829.7	270.6	185.7	163.0	141.0	127.9	132.4	135.1	135.1	134.4
67.5°	1159.1	637.2	228.0	166.4	147.5	127.9	118.3	121.7	123.8	123.1	124.8
70°	823.9	431.5	185.7	144.4	127.9	113.1	105.9	105.9	104.5	103.8	103.8
72.5°	399.6	246.5	150.6	120.7	109.0	96.6	90.8	88.4	85.6	85.3	83.6
73°	333.9	221.1	143.7	116.2	104.5	94.2	87.7	83.9	82.2	80.8	80.5
75°	203.2	167.8	120.0	98.0	89.1	81.1	75.3	71.9	70.1	69.1	68.8
77.5°	133.8	125.2	93.2	75.0	68.1	63.3	60.9	57.4	56.4	55.0	55.0
80°	99.7	95.6	66.7	53.0	48.8	44.7	44.0	43.3	40.6	38.9	38.2
82.5°	64.3	68.1	45.4	35.4	30.9	27.5	27.9	28.9	26.1	23.7	23.0
85°	45.7	49.2	27.5	16.2	13.1	11.3	12.7	11.3	11.7	9.3	7.6
87.5°	7.6	13.1	4.8	2.1	1.0	0.7	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)