

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: P299103

Luminaire Tested: **GLNA-AF-02-LED-E1-T3-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299103
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24140)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLNA-AF-02-LED-E1-T3-8030
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND Type III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9906.2 lumens
Efficiency: N/A
Efficacy: 87.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 113
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: 25 FT

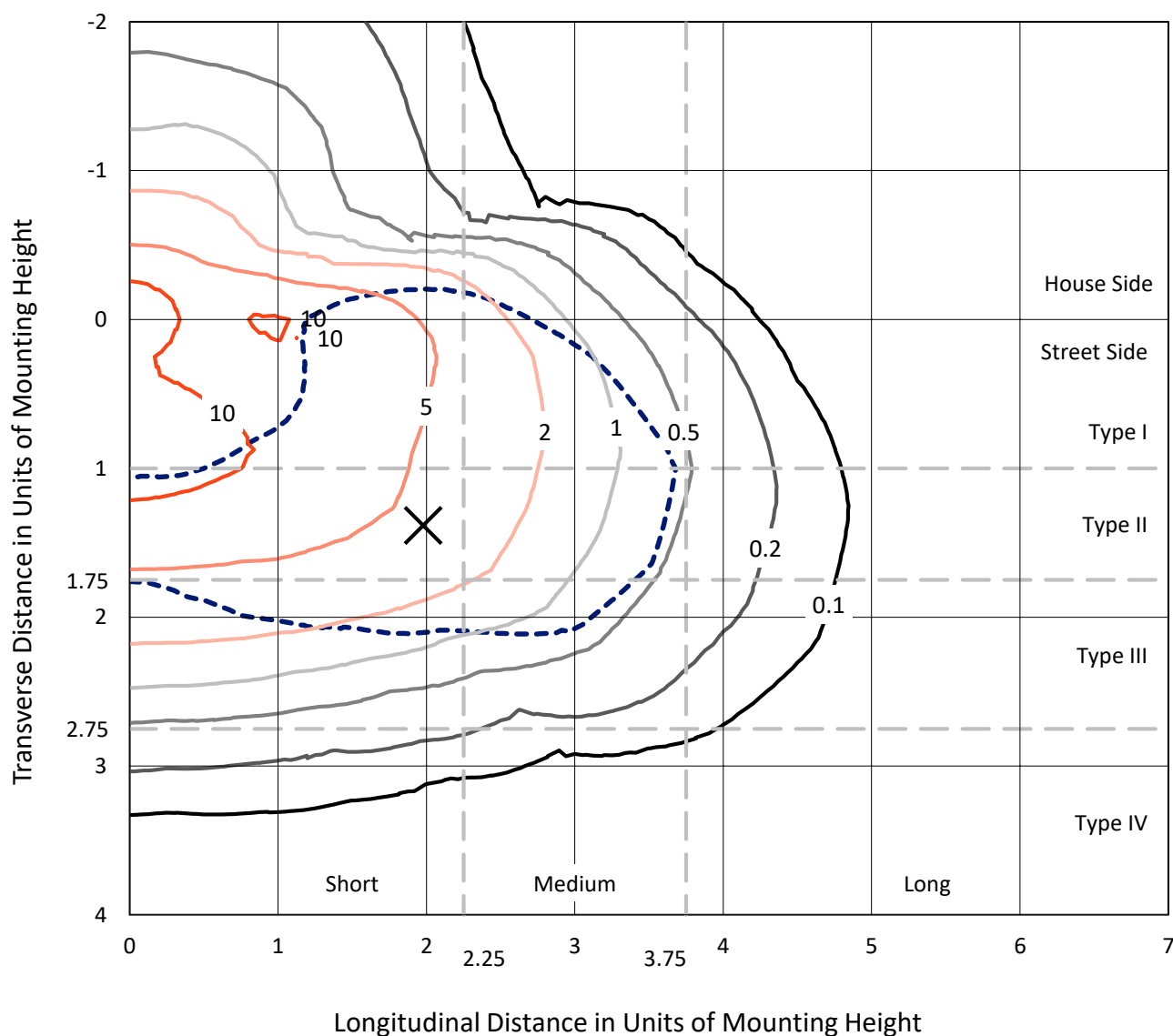


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

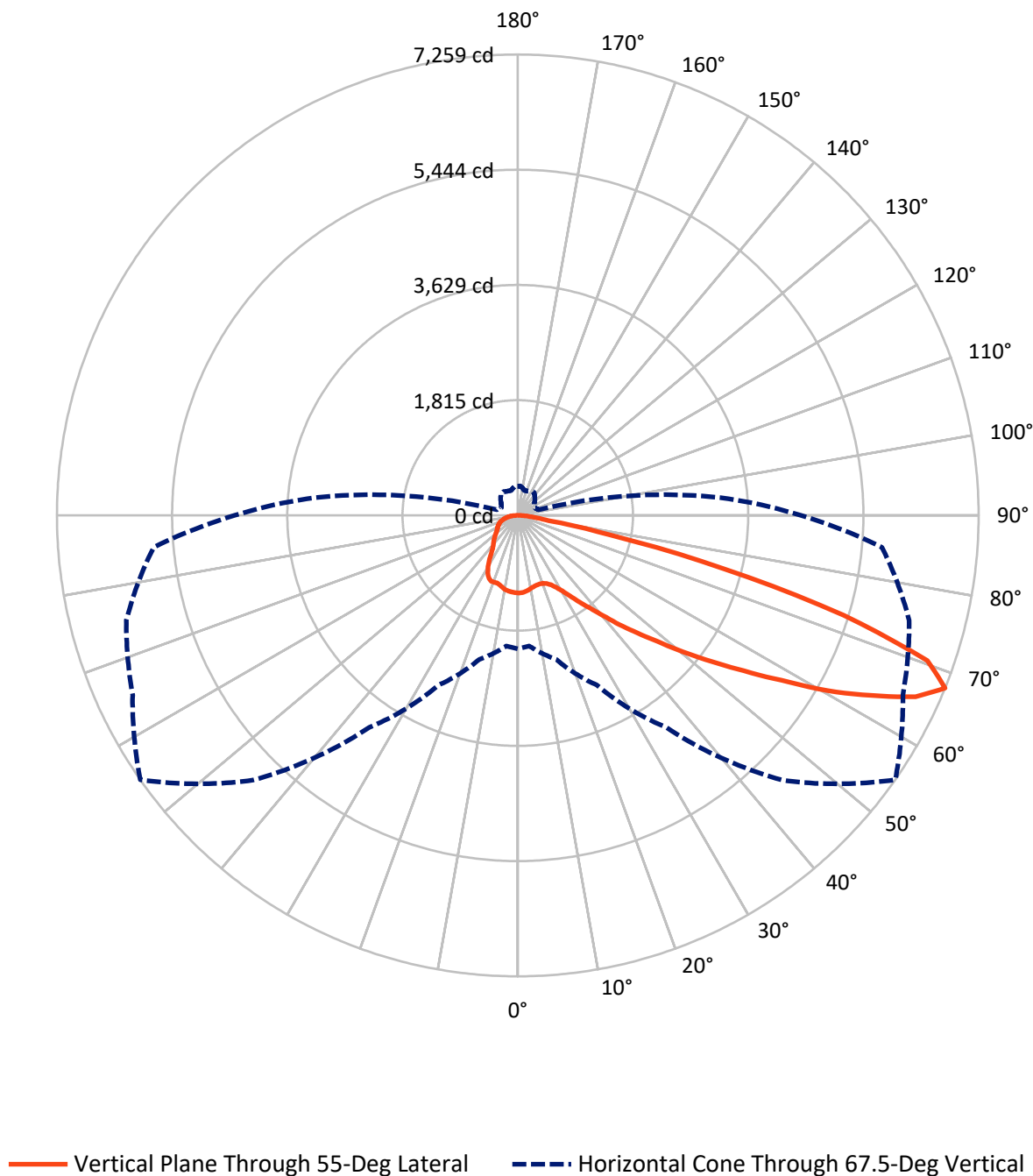


Based on 10 foot mounting height. Maximum calculated value = 12.6 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2140.0	0.0	2140.0
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	7766.3	0.0	7766.3
	% Fixture	78.4	0.0	78.4
Total	Lumens	9906.2	0.0	9906.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.0	1.2
10°-20°	322.9	3.3
20°-30°	540.9	5.5
30°-40°	889.5	9.0
40°-50°	1497.3	15.1
50°-60°	2356.7	23.8
60°-70°	2812.5	28.4
70°-80°	1207.7	12.2
80°-90°	164.7	1.7
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°	9906.2	100.0
0°-180°	9906.2	100.0

Coefficient of Utilization



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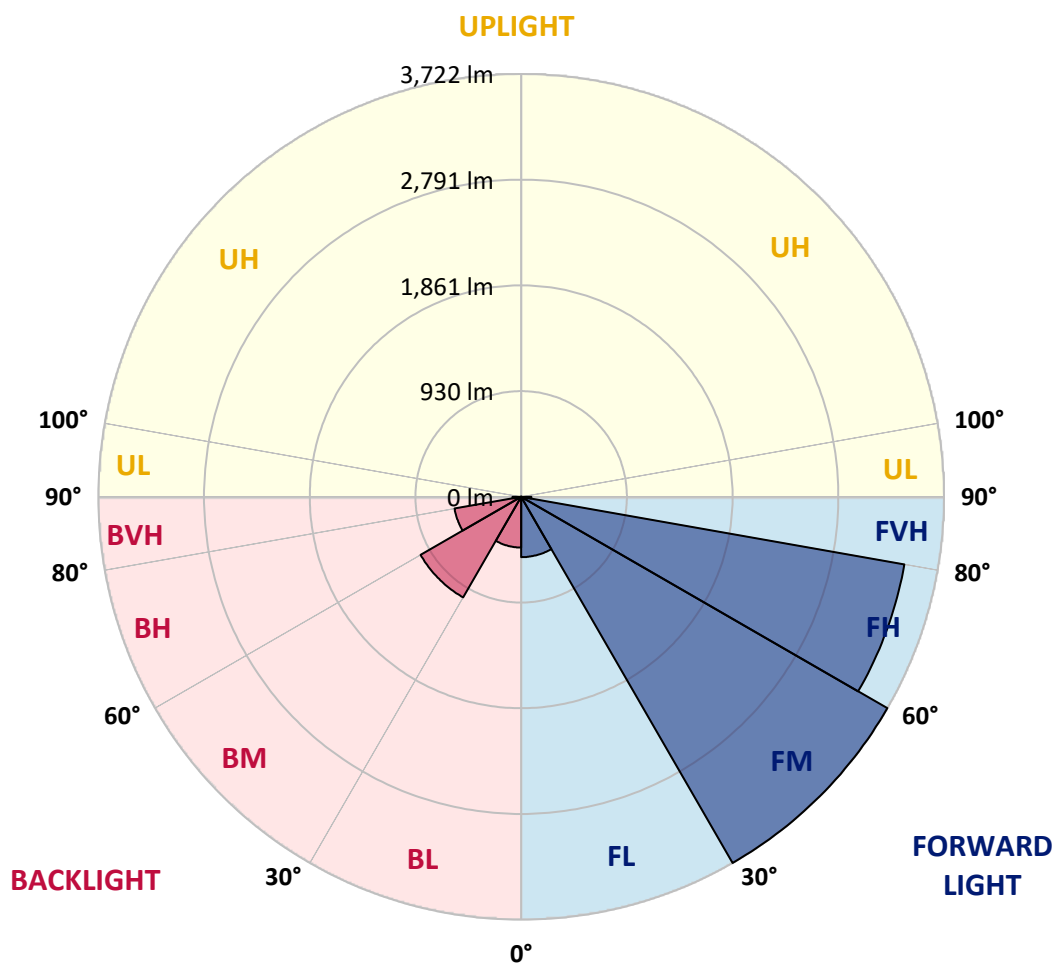
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	531.0	5.4			
FM	(30°-60°)	3721.5	37.6			
FH	(60°-80°)	3424.6	34.6			G2/5000
FVH	(80°-90°)	89.1	0.9			G1/100
BL	(0°-30°)	446.9	4.5	B1/500		
BM	(30°-60°)	1022.0	10.3	B2/2500		
BH	(60°-80°)	595.5	6.0	B2/1000		G2/1000
BVH	(80°-90°)	75.5	0.8			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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1221.5	1221.5	1221.5	1221.5	1221.5	1221.5	1221.5	1221.5	1221.5	1221.5	1221.5
2.5°	1211.0	1211.5	1212.5	1216.3	1219.6	1218.7	1219.2	1217.2	1216.8	1213.9	1216.8
5°	1195.7	1197.1	1197.6	1203.8	1207.7	1208.6	1207.2	1204.8	1201.9	1199.1	1200.5
7.5°	1160.8	1164.6	1165.1	1173.7	1179.9	1188.1	1188.5	1189.0	1187.6	1185.7	1188.5
10°	1138.8	1139.7	1139.2	1145.5	1150.3	1159.3	1164.6	1173.7	1177.5	1178.5	1180.4
12.5°	1137.3	1136.4	1134.9	1134.9	1133.5	1137.3	1146.9	1159.8	1168.9	1171.8	1174.2
15°	1152.6	1152.2	1147.4	1140.2	1131.1	1128.2	1136.4	1150.7	1162.7	1168.9	1171.3
17.5°	1187.1	1184.2	1176.6	1160.3	1140.7	1133.0	1134.0	1145.9	1159.8	1168.0	1170.4
20°	1250.3	1250.3	1234.0	1203.4	1168.4	1150.3	1141.6	1148.8	1162.2	1173.2	1176.6
22.5°	1359.3	1360.3	1333.0	1282.8	1223.9	1185.2	1163.7	1162.2	1178.0	1190.4	1194.3
25°	1513.9	1510.1	1471.8	1400.0	1310.5	1246.4	1209.1	1200.5	1213.9	1227.8	1232.6
27.5°	1693.8	1679.9	1634.5	1547.9	1432.1	1338.3	1280.9	1267.0	1279.9	1295.7	1300.5
30°	1871.8	1857.4	1803.4	1708.6	1579.9	1461.3	1379.0	1356.5	1374.7	1397.1	1400.0
32.5°	2049.8	2049.8	1989.5	1879.0	1738.8	1608.2	1509.6	1482.8	1512.9	1540.2	1546.4
35°	2262.7	2263.7	2205.3	2072.3	1921.6	1783.3	1674.7	1655.0	1700.5	1719.6	1734.5
37.5°	2524.4	2529.7	2454.6	2293.8	2128.7	1983.3	1854.1	1827.3	1872.8	1924.9	1972.8
40°	2807.2	2813.9	2731.1	2533.0	2368.0	2215.8	2076.1	2027.8	2103.4	2202.9	2264.6
42.5°	3077.1	3111.5	3031.6	2827.8	2650.3	2492.9	2351.2	2280.9	2375.6	2525.9	2579.5
45°	3467.0	3491.9	3352.7	3168.0	3001.0	2824.9	2637.4	2563.2	2695.7	2885.2	2896.2
47.5°	3726.8	3708.2	3637.4	3522.5	3416.8	3252.2	2969.9	2888.6	3064.6	3287.6	3225.9
50°	3865.1	3870.9	3861.3	3868.0	3871.8	3768.5	3377.6	3266.1	3476.1	3745.5	3603.4
52.5°	3994.3	3956.0	3987.6	4144.6	4334.0	4295.7	3821.1	3704.8	3917.3	4253.6	4002.4
55°	3991.4	3933.1	4035.9	4313.0	4724.0	4768.0	4319.2	4185.2	4383.8	4798.6	4425.4
57.5°	3850.3	3853.2	4011.5	4374.2	4995.8	5212.0	4897.2	4696.2	4878.5	5350.8	4811.5
60°	3656.0	3682.3	3910.6	4364.2	5213.5	5576.1	5606.3	5247.0	5363.2	5852.7	5131.2
62.5°	3342.6	3370.4	3685.2	4259.9	5180.5	5926.9	6247.4	5871.8	5869.9	6157.0	5224.9
65°	2848.4	2840.2	3170.9	3869.9	4903.4	6186.2	6884.3	6412.0	6251.8	6161.8	5036.4
67.5°	2100.5	2064.1	2347.9	2947.4	4075.7	5895.8	7258.9	6693.4	6381.9	5756.5	4460.3
70°	1090.0	1053.6	1283.3	1721.1	2680.4	4601.5	6844.1	6547.9	6094.3	4825.4	3494.3
72.5°	466.0	459.8	553.1	755.0	1296.7	2654.1	5366.6	5667.5	5229.3	3595.3	2402.4
75°	313.4	311.5	346.4	411.5	583.3	1077.0	3358.4	4023.0	3825.9	2229.2	1351.2
77.5°	245.9	243.5	264.1	295.7	378.0	424.9	1490.4	2159.8	1999.1	970.3	591.4
80°	192.3	190.4	203.4	220.6	271.8	267.9	490.4	859.3	665.1	371.8	287.6
82.5°	151.7	151.7	162.2	162.7	192.8	182.8	256.0	378.5	332.1	216.7	176.1
85°	138.8	138.8	149.8	121.5	125.8	115.3	158.9	224.4	210.5	89.0	76.6
87.5°	69.9	67.9	125.8	107.7	68.4	61.2	77.5	108.6	116.7	49.3	38.3
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1221.5	1221.5	1221.5	1221.5	1221.5	1221.5	1221.5	1221.5	1221.5	1221.5
2.5°	1215.8	1215.3	1216.3	1216.8	1220.6	1225.9	1228.2	1231.6	1233.5	1232.6
5°	1201.5	1202.4	1206.2	1209.1	1215.8	1224.4	1229.2	1233.0	1236.4	1234.9
7.5°	1189.5	1191.9	1197.6	1200.0	1203.8	1206.2	1205.8	1207.2	1210.1	1206.7
10°	1182.8	1185.7	1190.0	1186.6	1177.5	1164.6	1152.6	1146.4	1148.3	1145.9
12.5°	1176.1	1179.9	1176.6	1160.8	1135.4	1118.7	1109.6	1110.5	1114.8	1115.8
15°	1172.3	1173.7	1159.3	1129.7	1103.8	1101.4	1106.2	1105.3	1105.8	1105.8
17.5°	1172.3	1168.4	1141.6	1112.0	1101.0	1096.7	1081.8	1063.2	1055.0	1052.2
20°	1178.5	1168.4	1135.9	1116.3	1092.4	1055.5	1016.3	981.8	966.5	962.2
22.5°	1197.1	1179.9	1152.2	1118.2	1050.3	988.5	926.3	885.2	857.4	852.6
25°	1234.9	1215.8	1184.2	1092.8	983.3	895.2	824.4	778.5	750.7	746.9
27.5°	1301.0	1288.5	1201.5	1036.9	894.3	800.0	734.5	699.1	678.5	677.0
30°	1400.5	1394.3	1192.8	954.1	784.7	707.7	676.1	655.5	640.2	639.7
32.5°	1559.4	1509.1	1164.6	853.1	684.7	642.1	629.2	616.8	604.8	604.8
35°	1763.7	1601.9	1111.0	745.0	623.9	605.7	589.5	569.9	554.1	553.1
37.5°	2003.9	1659.4	1014.8	657.9	595.2	581.3	557.4	528.2	500.5	495.7
40°	2246.4	1676.6	879.4	604.3	577.0	556.9	527.8	493.3	466.5	465.1
42.5°	2468.9	1643.6	735.9	567.5	558.9	532.1	501.4	470.8	449.8	449.3
45°	2655.5	1557.9	615.3	532.5	539.7	509.6	482.3	457.4	441.2	437.8
47.5°	2831.1	1436.9	530.6	495.7	520.6	497.1	474.2	450.7	434.9	432.5
50°	3035.0	1306.2	471.3	459.8	503.8	492.8	480.9	456.5	430.1	427.3
52.5°	3281.9	1193.3	424.9	428.2	490.9	498.6	498.1	472.7	426.8	423.0
55°	3557.5	1068.0	390.0	402.4	485.7	509.1	502.4	488.0	429.7	423.9
57.5°	3828.8	921.5	365.6	382.8	478.0	508.1	481.8	461.3	436.4	428.2
60°	4032.1	724.9	346.9	365.6	461.3	492.4	459.3	432.1	434.9	428.7
62.5°	4045.5	560.3	324.4	350.7	435.9	476.6	444.5	419.1	441.2	435.4
65°	3807.7	423.5	302.9	333.0	408.6	466.5	430.1	412.0	454.1	447.9
67.5°	3205.8	340.7	284.7	314.8	381.3	445.5	417.2	405.3	465.6	454.6
70°	2314.4	290.4	267.0	292.8	356.9	421.5	405.7	393.3	434.5	417.2
72.5°	1424.9	251.7	246.9	263.6	338.3	396.7	388.5	370.8	391.4	377.5
75°	711.5	218.2	224.4	234.9	312.0	368.4	359.8	342.1	345.0	342.1
77.5°	340.7	186.6	198.1	206.2	278.0	336.4	327.3	309.1	305.7	306.2
80°	215.8	156.0	167.0	172.7	248.3	299.0	290.0	271.8	310.1	287.6
82.5°	134.9	126.8	129.7	140.2	216.3	260.3	248.3	232.1	279.4	221.1
85°	74.6	88.5	92.3	101.4	166.5	217.7	205.7	185.2	166.0	163.2
87.5°	44.5	52.6	54.1	60.8	112.0	157.4	139.2	132.1	109.6	109.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)