

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: P300966

Luminaire Tested: **GLNA-AF-02-LED-E1-SL4-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300966
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24301)
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-SL4-7027-600
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Type V
Square Wide OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6600.2 lumens
Efficiency: N/A
Efficacy: 100.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 66
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

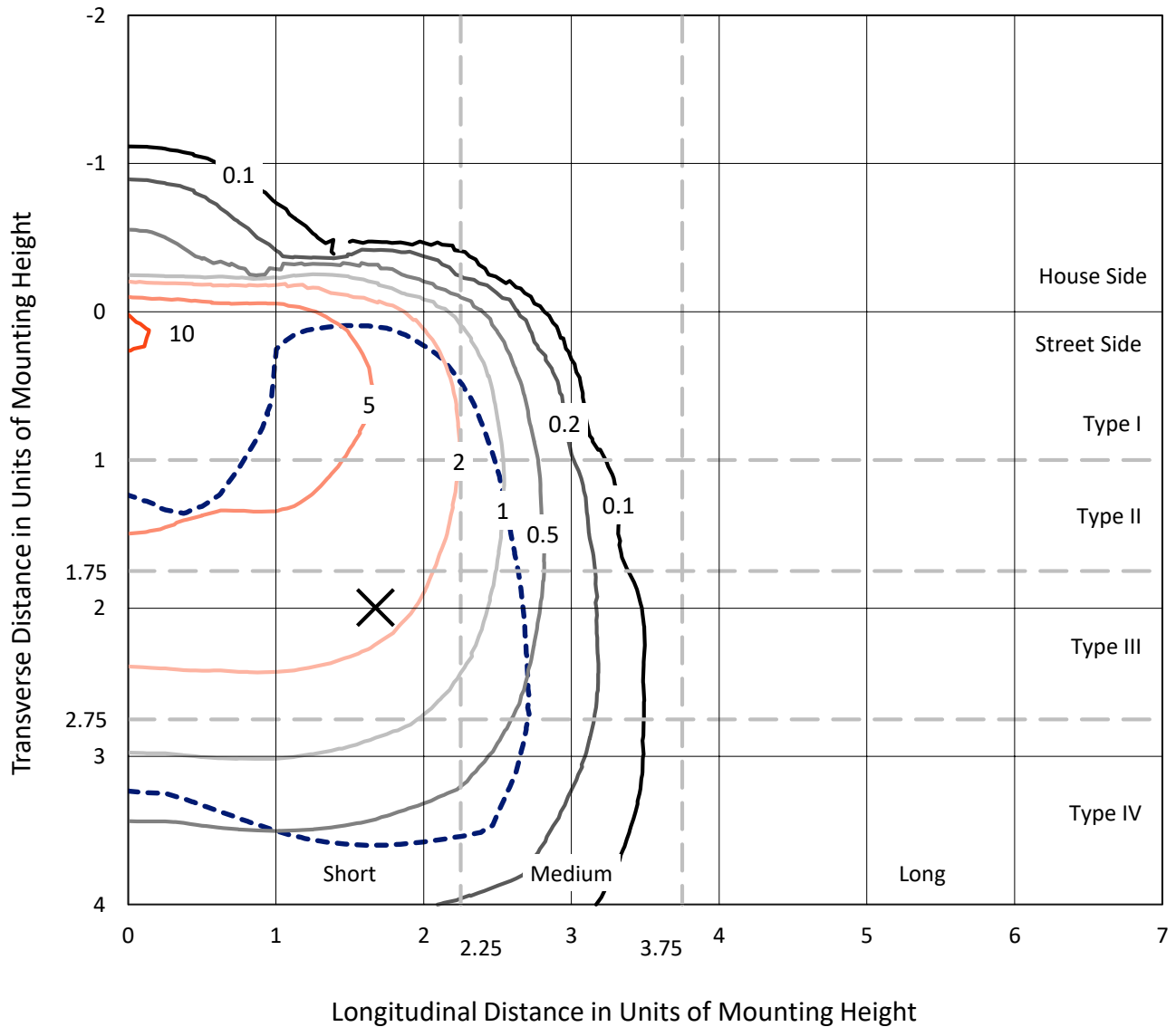


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Iso-Footcandle Lines of Horizontal Illumination

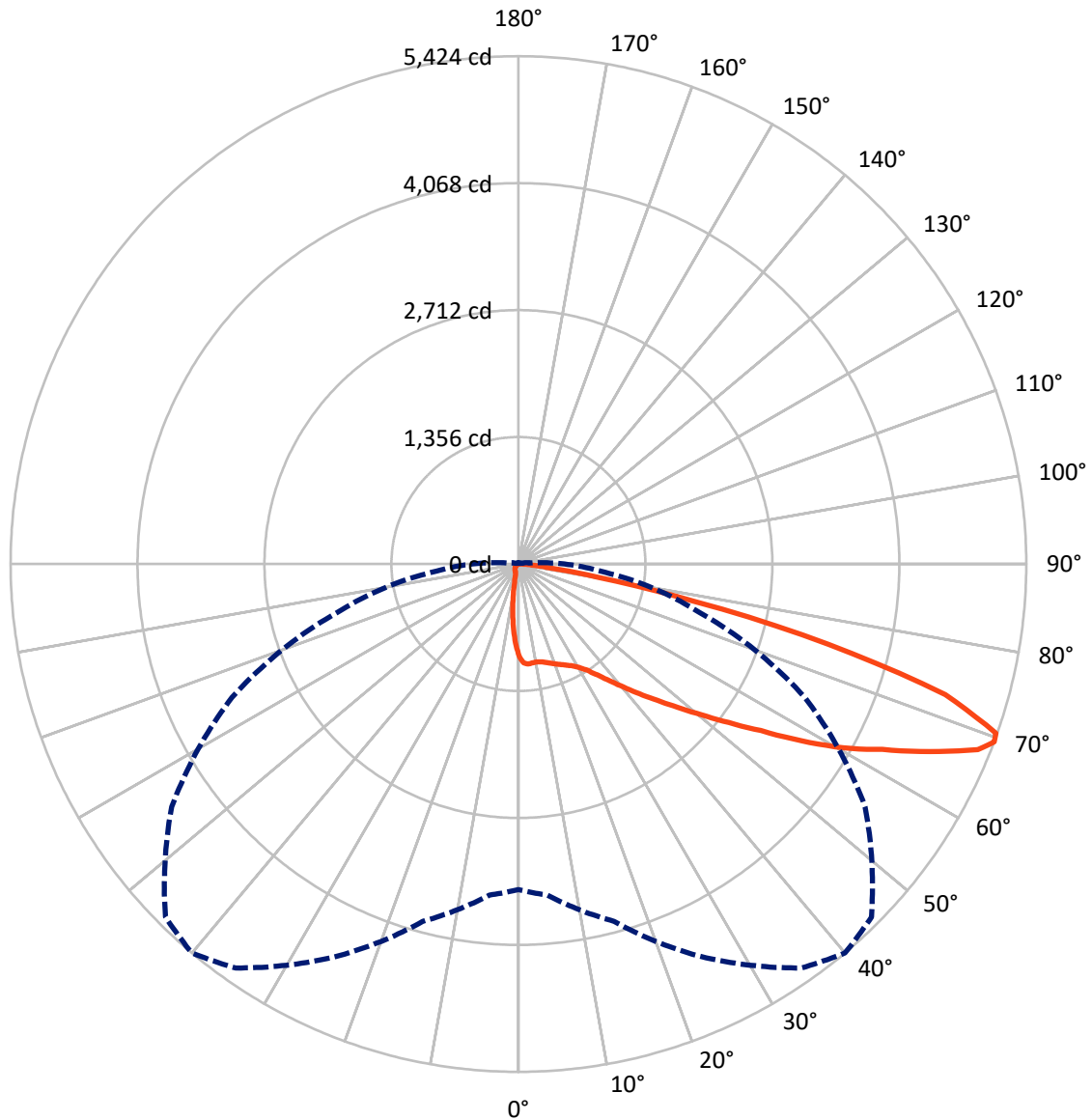
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.8 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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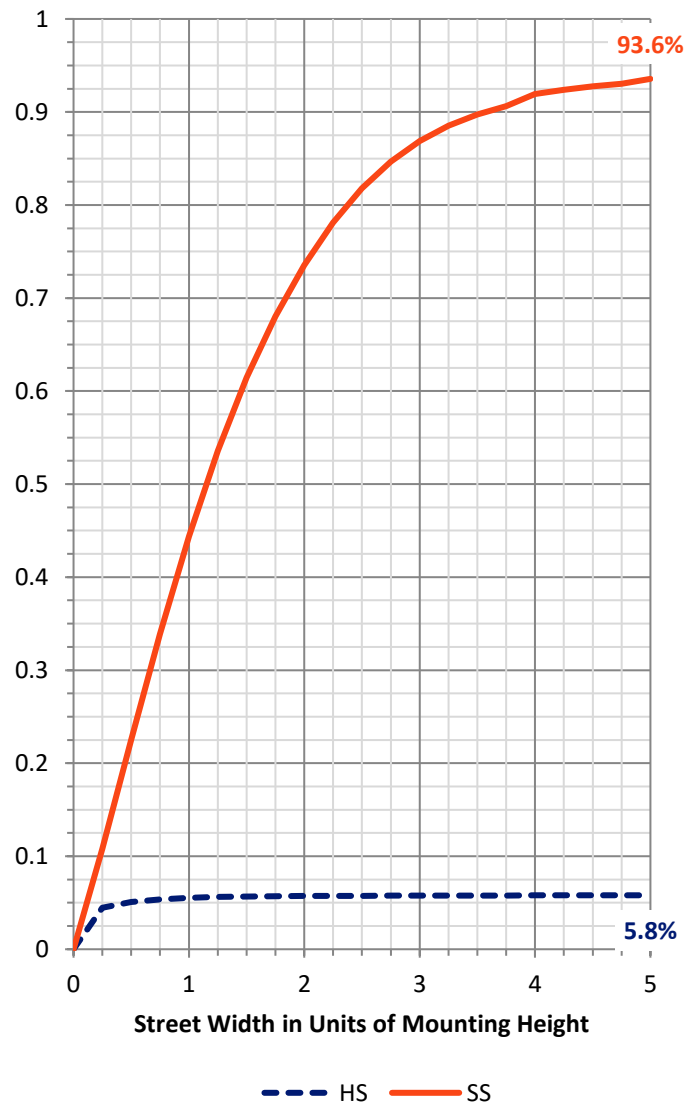
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	386.2	0.0	386.2
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	6214.1	0.0	6214.1
	% Fixture	94.1	0.0	94.1
Total	Lumens	6600.2	0.0	6600.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.0	1.2
10°-20°	196.6	3.0
20°-30°	331.2	5.0
30°-40°	542.1	8.2
40°-50°	938.7	14.2
50°-60°	1478.6	22.4
60°-70°	1930.9	29.3
70°-80°	994.5	15.1
80°-90°	107.6	1.6
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°	6600.2	100.0
0°-180°	6600.2	100.0

Coefficient of Utilization



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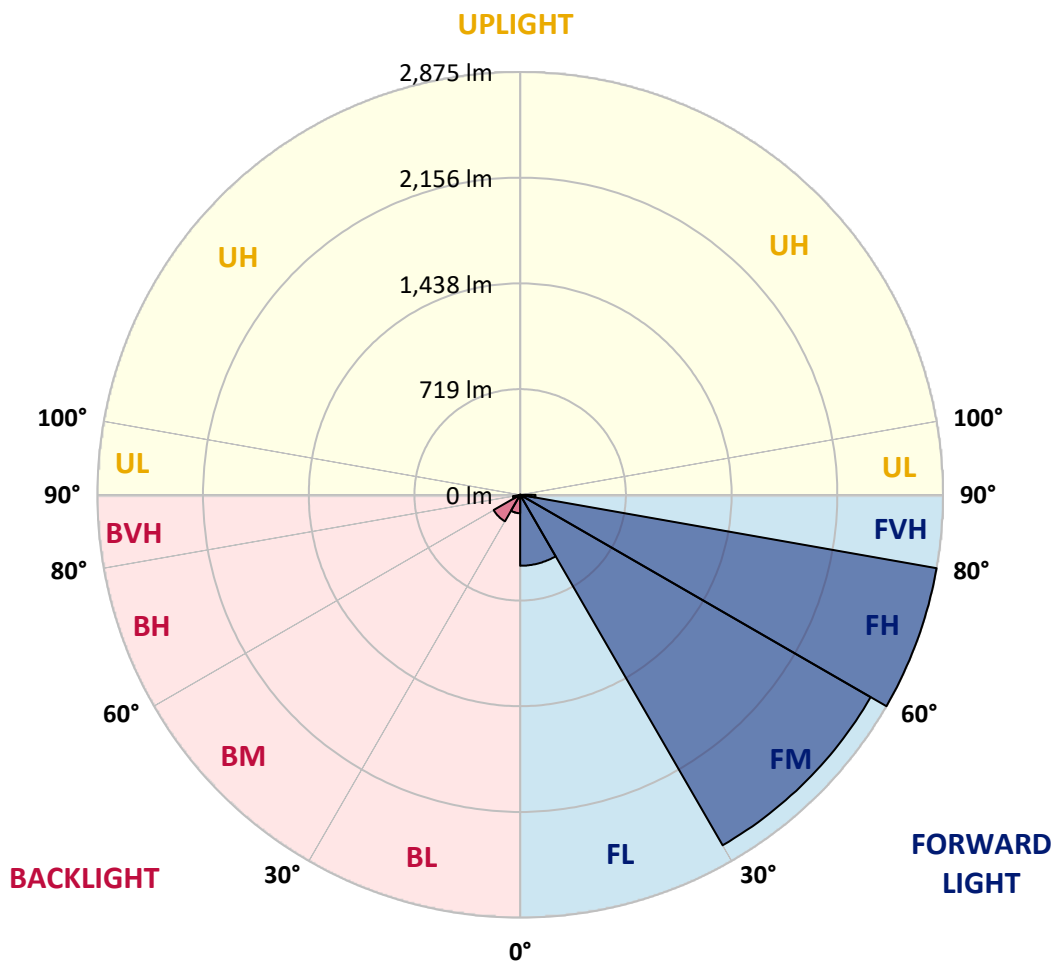
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	482.7	7.3			
FM	(30°-60°)	2751.9	41.7			
FH	(60°-80°)	2875.3	43.6			G2/5000
FVH	(80°-90°)	104.2	1.6			G2/225
BL	(0°-30°)	125.1	1.9	B1/500		
BM	(30°-60°)	207.5	3.1	B0/220		
BH	(60°-80°)	50.1	0.8	B0/110		G0/110
BVH	(80°-90°)	3.4	0.1			G0/10
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°	40°	45°	55°	65°	75°	85°
0°	986.1	986.1	986.1	986.1	986.1	986.1	986.1	986.1	986.1	986.1	986.1
2.5°	1082.8	1076.9	1073.3	1068.6	1062.7	1057.6	1055.6	1041.1	1027.4	1008.5	986.9
5°	1102.8	1100.8	1094.5	1088.3	1081.2	1073.3	1069.0	1051.7	1032.1	1004.6	966.9
7.5°	1104.8	1102.4	1094.5	1085.9	1076.1	1066.6	1059.2	1041.9	1023.8	995.9	950.0
10°	1101.6	1098.9	1093.0	1083.5	1071.4	1062.3	1054.9	1038.4	1023.0	997.9	946.8
12.5°	1098.1	1095.3	1092.6	1087.9	1077.3	1071.0	1064.7	1049.0	1035.2	1014.0	958.2
15°	1101.6	1100.0	1103.2	1101.2	1095.3	1089.8	1083.5	1069.4	1056.8	1039.1	979.0
17.5°	1116.5	1116.5	1126.4	1127.5	1122.0	1114.2	1105.1	1091.0	1080.4	1065.5	1003.8
20°	1151.5	1150.3	1162.9	1165.3	1151.9	1139.7	1126.4	1109.1	1100.8	1091.4	1028.1
22.5°	1211.6	1206.1	1213.6	1211.2	1184.9	1166.0	1149.5	1128.3	1124.0	1119.7	1055.3
25°	1289.8	1286.7	1291.8	1268.6	1222.2	1196.7	1177.0	1153.1	1153.1	1157.4	1085.9
27.5°	1403.3	1391.6	1374.3	1333.4	1263.9	1231.3	1210.0	1184.5	1191.2	1207.3	1126.4
30°	1519.6	1506.7	1467.0	1404.1	1314.5	1280.4	1255.6	1228.9	1244.6	1274.1	1180.6
32.5°	1634.3	1619.8	1563.6	1484.3	1387.2	1353.0	1329.1	1299.6	1325.9	1375.4	1259.9
35°	1745.5	1732.6	1667.7	1574.2	1483.9	1455.6	1433.6	1408.1	1441.8	1511.0	1371.9
37.5°	1870.5	1856.3	1777.4	1676.0	1601.3	1580.9	1564.8	1539.3	1598.2	1699.6	1527.9
40°	2024.1	2000.1	1893.6	1792.7	1737.3	1727.5	1716.5	1712.9	1804.5	1944.7	1735.7
42.5°	2200.1	2160.8	2015.4	1915.6	1886.6	1893.6	1890.9	1906.6	2062.6	2249.6	1988.7
45°	2376.1	2325.4	2151.0	2046.9	2050.8	2075.5	2090.9	2153.7	2385.9	2599.2	2261.0
47.5°	2525.4	2475.5	2281.0	2188.7	2235.8	2284.5	2326.2	2445.2	2718.3	2943.4	2472.7
50°	2653.1	2605.9	2418.9	2344.7	2450.7	2529.3	2596.9	2773.3	3075.8	3205.4	2621.2
52.5°	2757.6	2726.1	2561.9	2523.4	2696.3	2811.4	2910.4	3121.8	3392.4	3418.4	2736.7
55°	2859.3	2836.9	2715.5	2736.0	2984.6	3141.4	3266.7	3491.4	3665.1	3596.0	2847.5
57.5°	2976.4	2956.0	2890.7	3005.5	3363.8	3561.0	3697.7	3819.1	3905.1	3777.5	2952.0
60°	3095.8	3084.0	3085.6	3304.8	3799.1	3988.4	4063.9	4095.3	4140.9	3948.4	2957.9
62.5°	3209.8	3232.2	3308.4	3638.0	4215.9	4361.3	4399.4	4430.4	4377.0	3975.5	2732.8
65°	3402.7	3439.2	3621.1	4083.9	4674.4	4830.0	4869.2	4762.8	4414.3	3625.0	2222.9
67.5°	3496.9	3563.7	3888.2	4499.6	5119.1	5292.0	5277.4	4784.4	3961.3	2764.2	1426.5
69°	3477.3	3548.4	3949.9	4626.8	5266.8	5423.6	5331.3	4520.0	3374.8	2002.5	875.7
70°	3399.5	3471.4	3918.1	4622.1	5285.7	5409.8	5231.5	4193.5	2853.4	1464.2	547.7
72.5°	2838.9	2901.0	3478.5	4177.8	4869.2	4768.3	4376.6	2905.3	1390.4	398.8	123.4
75°	1747.5	1782.1	2495.9	3147.3	3677.7	3418.4	2915.9	1445.4	414.5	112.8	68.4
77.5°	923.2	939.0	1366.4	1855.1	2331.3	1929.0	1494.5	563.8	190.9	70.7	49.5
80°	545.7	557.5	735.8	848.2	1008.9	842.7	597.6	346.1	136.7	44.4	44.0
82.5°	312.3	319.8	533.5	471.4	397.6	339.4	297.4	328.0	82.1	29.9	45.6
85°	114.7	116.3	300.2	358.7	236.5	140.6	147.7	271.9	22.0	18.9	35.8
87.5°	53.4	52.3	154.4	219.6	138.3	89.2	115.1	59.7	8.6	12.2	9.8
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°	986.1	986.1	986.1	986.1	986.1	986.1	986.1	986.1	986.1	986.1	986.1
2.5°	974.3	959.8	933.5	906.4	878.9	857.6	836.8	820.3	814.8	804.6	805.4
5°	944.5	917.7	862.7	807.0	748.8	700.9	655.7	619.2	601.5	583.4	583.4
7.5°	918.5	879.6	793.6	702.8	609.0	530.0	458.9	405.4	376.0	352.4	352.0
10°	908.7	856.1	735.8	605.8	475.0	367.3	282.9	228.7	200.8	182.7	181.9
12.5°	913.0	847.8	691.5	516.2	352.0	236.1	163.8	128.9	117.1	111.6	111.6
15°	925.6	845.5	647.1	428.6	248.7	147.7	108.8	99.4	98.6	98.6	98.6
17.5°	940.9	846.2	601.5	343.4	169.3	105.7	93.9	92.7	93.5	93.5	93.5
20°	956.6	846.6	552.4	264.4	119.4	91.9	88.4	88.0	88.8	88.8	89.2
22.5°	975.9	848.6	503.3	197.6	98.6	86.8	84.1	84.1	84.5	84.5	84.1
25°	997.9	852.5	452.2	146.5	90.0	83.3	80.9	80.5	80.9	80.5	80.1
27.5°	1025.4	858.0	395.2	114.7	86.0	79.8	77.8	77.8	77.4	77.0	76.6
30°	1060.0	864.3	331.2	97.4	82.1	76.6	74.6	74.3	73.9	73.1	73.1
32.5°	1112.6	878.1	267.9	88.4	77.8	72.3	70.7	70.7	69.9	69.1	68.8
35°	1193.5	905.2	211.4	82.9	73.1	67.6	65.6	65.6	64.8	64.4	64.0
37.5°	1305.5	946.4	164.2	77.8	68.4	62.5	60.5	60.1	59.3	58.5	58.1
40°	1454.4	997.5	129.3	73.1	63.6	57.4	55.8	55.0	53.4	52.3	52.3
42.5°	1641.4	1055.6	104.9	68.0	58.1	52.6	51.5	50.3	47.5	46.4	46.0
45°	1837.1	1107.9	88.8	62.1	52.6	47.9	47.1	45.2	41.6	40.5	40.5
47.5°	1978.1	1120.1	78.2	56.6	47.5	42.8	42.4	38.9	35.8	35.0	34.6
50°	2066.1	1096.1	69.5	51.1	42.8	38.1	36.9	32.6	30.6	29.9	29.5
52.5°	2125.4	1053.3	62.5	46.4	38.5	33.8	31.0	27.9	26.3	25.5	25.5
55°	2173.0	992.8	55.4	42.0	35.0	30.3	26.3	24.0	22.4	21.6	21.6
57.5°	2186.3	910.7	48.3	38.5	31.4	26.7	22.4	20.8	18.9	18.5	18.5
60°	2089.3	762.6	42.8	34.2	28.3	23.2	19.6	17.7	15.7	15.3	14.9
62.5°	1833.5	590.1	37.7	30.3	24.8	20.0	16.9	14.5	13.0	13.0	13.0
65°	1398.6	395.6	33.0	26.3	21.6	16.9	14.5	11.8	11.0	11.0	11.4
67.5°	837.2	215.3	28.3	22.4	18.5	14.1	12.2	10.2	9.8	10.2	10.2
69°	490.7	126.5	25.5	20.0	16.1	12.6	10.6	9.0	9.8	10.2	10.2
70°	302.9	85.3	23.6	18.1	14.5	11.4	9.8	8.6	9.4	9.8	9.8
72.5°	84.5	44.0	18.9	14.1	11.8	9.4	7.9	7.9	9.0	9.4	9.4
75°	55.0	32.6	14.5	10.6	9.0	7.5	6.7	7.5	8.6	9.0	9.0
77.5°	45.6	26.7	11.8	8.6	7.5	7.1	6.3	6.7	7.9	8.3	8.3
80°	41.6	18.9	9.4	7.9	6.7	6.3	5.9	5.5	7.1	7.5	7.5
82.5°	39.7	14.9	8.3	7.1	6.3	5.5	5.1	5.5	6.3	6.7	7.1
85°	24.8	9.8	7.5	6.7	5.5	5.1	5.1	5.1	5.9	6.3	6.3
87.5°	9.0	7.9	6.7	5.5	4.7	4.7	4.7	4.7	5.1	5.9	5.9
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)