

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: P594615

Luminaire Tested: **ISS-PA1C-727-U-T2R**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594615
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-1)
Test Lab: INNOVATION CENTER
Issue Date: 3/22/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: ISS-PA1C-727-U-T2R
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE
(1) 70 CRI, 2700K, 615mA LIGHT ENGINE WITH 24 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5863 lumens
Efficiency: N/A
Efficacy: 119.9 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G1

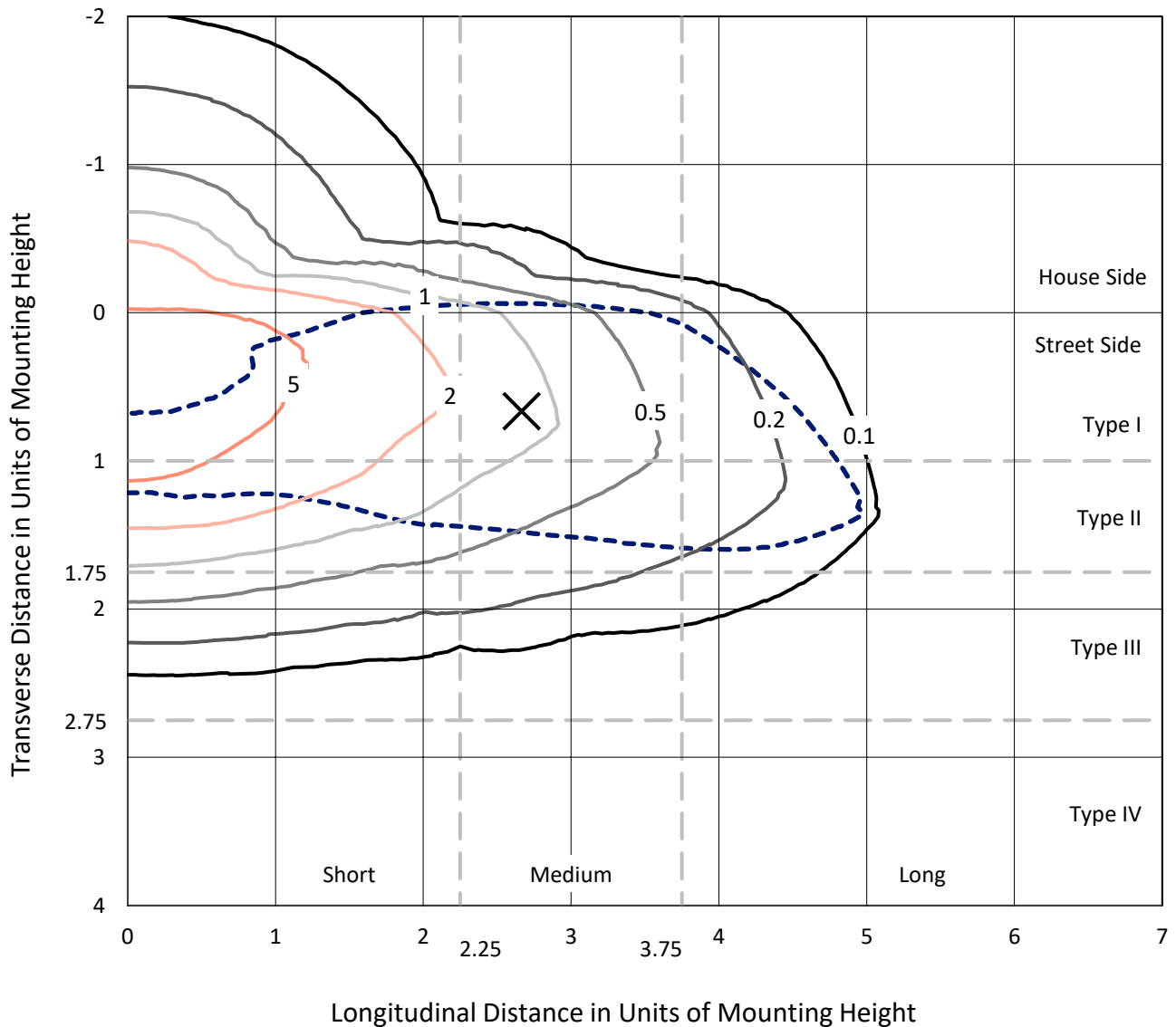
Input Watts (W): 48.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

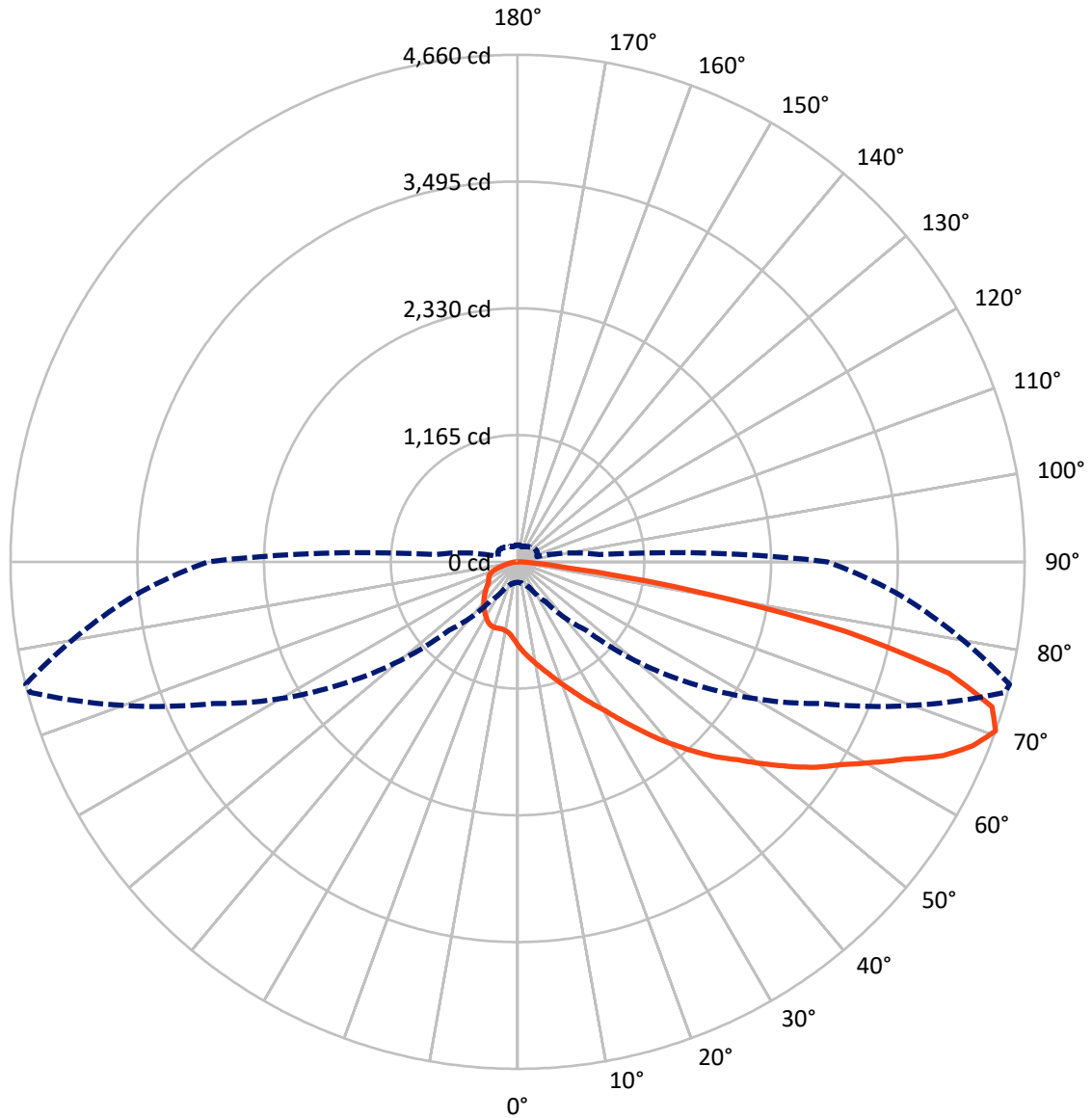
✕ Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 9.3 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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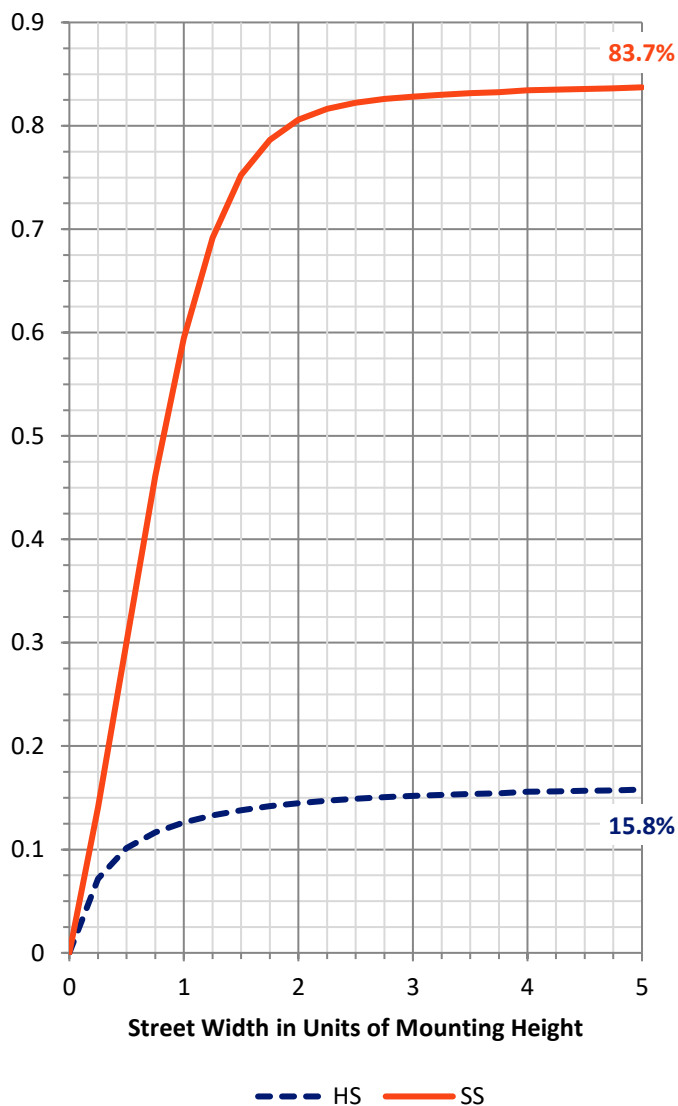
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	940.4	0.0	940.4
	% Fixture	16.0	0.0	16.0
Street Side	Lumens	4922.6	0.0	4922.6
	% Fixture	84.0	0.0	84.0
Total	Lumens	5863.0	0.0	5863.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.0	1.3
10°-20°	247.4	4.2
20°-30°	455.9	7.8
30°-40°	763.8	13.0
40°-50°	1085.3	18.5
50°-60°	1253.1	21.4
60°-70°	1151.9	19.6
70°-80°	726.3	12.4
80°-90°	104.5	1.8
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°	5863.0	100.0
0°-180°	5863.0	100.0

Coefficient of Utilization

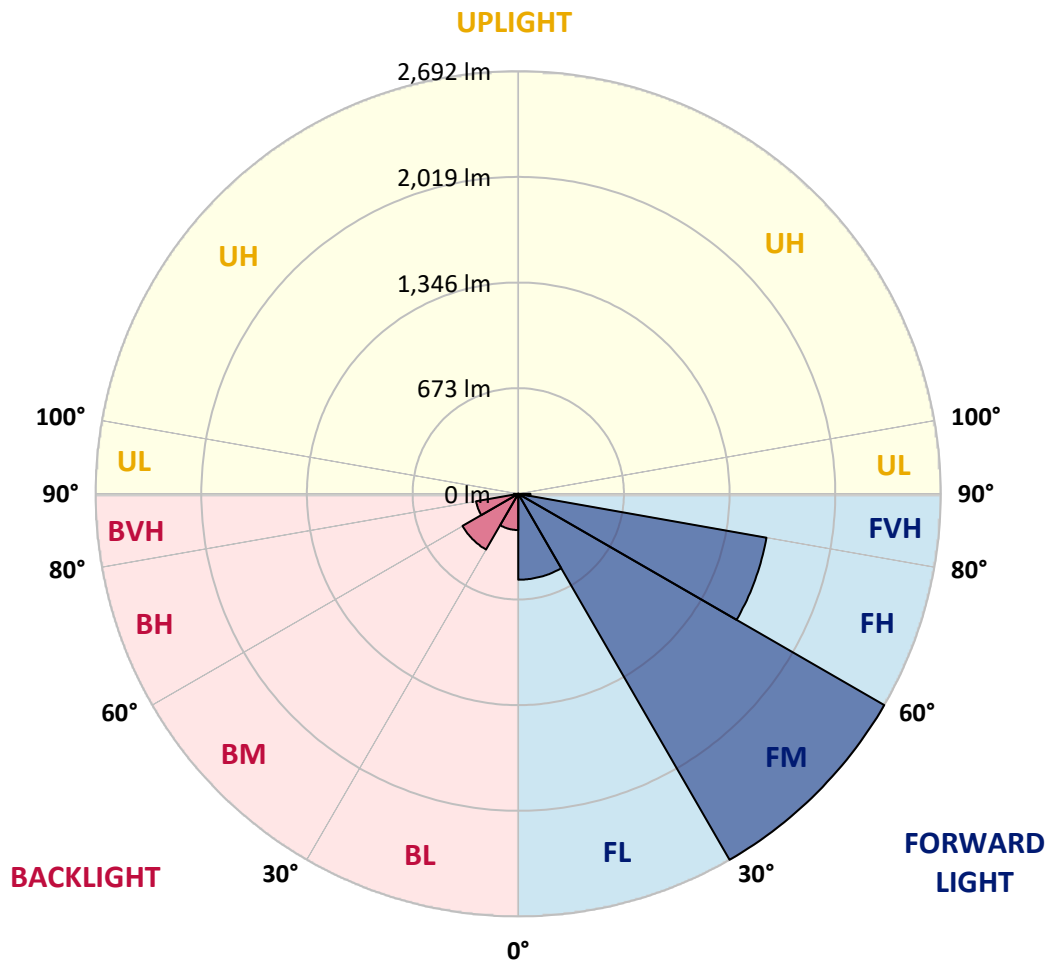


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	547.4	9.3			
FM (30°-60°)	2692.2	45.9			
FH (60°-80°)	1605.7	27.4			G1/1800
FVH (80°-90°)	77.4	1.3			G1/100
BL (0°-30°)	230.8	3.9	B1/500		
BM (30°-60°)	410.0	7.0	B1/1000		
BH (60°-80°)	272.6	4.6	B1/500		G1/500
BVH (80°-90°)	27.0	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	769.1	769.1	769.1	769.1	769.1	769.1	769.1	769.1	769.1	769.1	769.1
2.5°	925.8	924.4	920.1	913.1	907.4	890.5	867.9	848.2	818.5	815.7	786.1
5°	1009.1	1003.4	1003.4	996.4	989.3	970.9	942.7	907.4	865.1	862.3	805.8
7.5°	1048.6	1050.0	1047.2	1041.5	1042.9	1027.4	1002.0	966.7	908.9	906.0	832.6
10°	1105.0	1103.6	1098.0	1093.7	1092.3	1078.2	1055.6	1023.2	962.5	956.8	863.7
12.5°	1160.1	1155.8	1157.2	1155.8	1153.0	1138.9	1117.7	1085.3	1010.5	1007.6	901.8
15°	1191.1	1189.7	1199.6	1202.4	1213.7	1201.0	1182.6	1145.9	1078.2	1066.9	947.0
17.5°	1210.9	1209.5	1219.3	1241.9	1263.1	1263.1	1257.4	1217.9	1143.1	1134.7	997.8
20°	1244.7	1250.4	1267.3	1285.7	1316.7	1322.4	1320.9	1304.0	1217.9	1209.5	1054.2
22.5°	1312.5	1309.7	1323.8	1352.0	1380.2	1388.7	1390.1	1390.1	1304.0	1288.5	1112.1
25°	1457.8	1450.8	1439.5	1436.7	1470.5	1469.1	1464.9	1474.8	1394.3	1383.0	1178.4
27.5°	1734.4	1718.9	1675.2	1587.7	1567.9	1575.0	1553.8	1555.2	1497.3	1483.2	1234.9
30°	1996.9	1989.9	1949.0	1843.1	1731.6	1692.1	1655.4	1639.9	1611.7	1587.7	1295.5
32.5°	2234.0	2235.4	2186.0	2070.3	1956.0	1831.8	1768.3	1735.9	1747.1	1726.0	1378.8
35°	2394.9	2382.2	2351.2	2273.5	2149.4	2030.8	1909.4	1837.5	1898.1	1874.2	1462.1
37.5°	2489.5	2479.6	2454.2	2399.1	2337.1	2222.7	2068.9	1958.8	2077.4	2042.1	1567.9
40°	2537.5	2523.3	2497.9	2475.4	2445.7	2383.6	2248.1	2097.1	2241.1	2210.0	1672.3
42.5°	2543.1	2533.2	2519.1	2507.8	2517.7	2509.2	2423.1	2258.0	2413.3	2379.4	1792.3
45°	2538.9	2545.9	2529.0	2509.2	2529.0	2601.0	2601.0	2418.9	2584.0	2558.6	1906.6
47.5°	2541.7	2534.6	2529.0	2523.3	2526.2	2624.9	2723.7	2569.9	2747.7	2718.1	2040.7
50°	2424.5	2434.4	2482.4	2503.6	2516.3	2630.6	2822.5	2733.6	2951.0	2914.3	2190.3
52.5°	2052.0	2057.6	2276.4	2434.4	2485.2	2608.0	2891.7	2915.7	3151.3	3123.1	2351.2
55°	1580.6	1610.3	1817.7	2204.4	2414.7	2569.9	2912.8	3034.2	3356.0	3333.4	2513.5
57.5°	1301.2	1305.4	1425.4	1771.1	2191.7	2534.6	2934.0	3142.9	3539.4	3514.0	2682.8
60°	1079.6	1069.7	1143.1	1366.1	1820.5	2393.5	2938.2	3229.0	3752.5	3744.1	2857.8
62.5°	793.1	804.4	875.0	1064.1	1424.0	2107.0	2917.1	3302.4	4006.6	3995.3	3052.6
65°	486.9	501.0	587.1	760.7	1078.2	1672.3	2778.8	3340.5	4273.3	4298.7	3262.8
67.5°	258.3	268.1	318.9	460.1	739.5	1274.4	2445.7	3292.5	4499.1	4510.4	3464.6
70°	189.1	190.5	207.5	259.7	446.0	886.3	1947.5	3083.6	4637.4	4660.0	3531.0
72.5°	165.1	166.5	173.6	186.3	242.7	540.5	1395.7	2719.5	4579.5	4559.8	3419.5
75°	149.6	149.6	155.2	159.5	177.8	299.2	855.2	2225.6	4137.8	4094.1	2915.7
77.5°	128.4	128.4	134.1	139.7	153.8	193.3	447.4	1649.8	3164.1	3089.3	1994.1
80°	103.0	103.0	110.1	117.1	135.5	145.4	218.7	1103.6	1809.2	1699.2	907.4
82.5°	70.6	76.2	88.9	97.4	112.9	103.0	128.4	477.0	570.2	493.9	204.6
85°	42.3	45.2	63.5	73.4	84.7	55.0	79.0	183.5	170.8	149.6	46.6
87.5°	4.2	7.1	25.4	29.6	29.6	15.5	33.9	43.7	49.4	50.8	11.3
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	769.1	769.1	769.1	769.1	769.1	769.1	769.1	769.1	769.1	769.1	769.1
2.5°	769.1	752.2	719.7	690.1	660.5	640.7	621.0	613.9	604.0	597.0	602.6
5°	776.2	740.9	678.8	626.6	591.3	564.5	551.8	544.7	539.1	537.7	536.3
7.5°	784.7	732.4	649.2	591.3	557.4	544.7	541.9	541.9	541.9	543.3	544.7
10°	803.0	735.3	633.7	571.6	553.2	550.4	551.8	557.4	557.4	558.9	558.9
12.5°	824.2	742.3	622.4	568.7	557.4	558.9	560.3	563.1	563.1	567.3	565.9
15°	855.2	756.4	621.0	571.6	561.7	558.9	558.9	557.4	557.4	557.4	560.3
17.5°	894.7	776.2	622.4	571.6	557.4	551.8	547.6	543.3	537.7	540.5	537.7
20°	934.3	800.2	622.4	564.5	546.2	532.0	519.3	512.3	505.2	503.8	505.2
22.5°	983.7	828.4	615.3	549.0	522.2	502.4	484.1	474.2	462.9	458.7	455.8
25°	1026.0	851.0	601.2	526.4	495.4	467.1	443.1	426.2	412.1	409.3	409.3
27.5°	1069.7	870.7	580.0	498.2	457.2	426.2	399.4	378.2	364.1	362.7	361.3
30°	1110.7	887.7	551.8	467.1	423.4	386.7	355.6	337.3	324.6	317.5	313.3
32.5°	1164.3	910.3	525.0	436.1	383.9	347.2	318.9	303.4	286.5	275.2	271.0
35°	1232.0	937.1	495.4	402.2	348.6	311.9	295.0	272.4	251.2	238.5	234.3
37.5°	1308.2	975.2	464.3	366.9	313.3	286.5	276.6	241.3	218.7	214.5	213.1
40°	1402.8	1011.9	429.0	330.2	279.4	272.4	255.4	218.7	207.5	206.0	204.6
42.5°	1497.3	1051.4	395.2	293.5	252.6	255.4	231.4	213.1	203.2	200.4	199.0
45°	1607.4	1090.9	361.3	261.1	231.4	231.4	218.7	207.5	199.0	196.2	196.2
47.5°	1723.2	1130.4	324.6	232.9	215.9	207.5	208.9	200.4	194.8	191.9	190.5
50°	1868.5	1168.5	290.7	213.1	206.0	194.8	199.0	193.3	190.5	187.7	186.3
52.5°	2005.4	1185.5	259.7	201.8	200.4	189.1	190.5	187.7	186.3	182.1	180.6
55°	2139.5	1181.2	235.7	196.2	193.3	187.7	184.9	183.5	182.1	177.8	176.4
57.5°	2289.1	1175.6	220.2	194.8	189.1	183.5	183.5	179.2	173.6	173.6	173.6
60°	2444.3	1157.2	213.1	194.8	187.7	183.5	180.6	176.4	170.8	172.2	170.8
62.5°	2619.3	1122.0	208.9	199.0	189.1	182.1	179.2	173.6	166.5	167.9	166.5
65°	2773.1	1050.0	206.0	203.2	191.9	183.5	176.4	169.4	160.9	162.3	160.9
67.5°	2877.6	928.6	197.6	206.0	196.2	182.1	173.6	163.7	152.4	158.1	156.7
70°	2847.9	755.0	182.1	200.4	200.4	183.5	169.4	156.7	143.9	155.2	151.0
72.5°	2617.9	567.3	152.4	180.6	197.6	183.5	160.9	145.4	134.1	141.1	132.7
75°	2149.4	385.3	121.4	143.9	184.9	184.9	153.8	134.1	120.0	115.7	112.9
77.5°	1340.7	239.9	94.6	105.8	155.2	183.5	146.8	120.0	100.2	97.4	94.6
80°	530.6	128.4	74.8	76.2	114.3	167.9	136.9	101.6	80.4	77.6	72.0
82.5°	121.4	64.9	52.2	50.8	70.6	136.9	124.2	80.4	62.1	62.1	52.2
85°	36.7	33.9	33.9	32.5	35.3	70.6	96.0	55.0	42.3	29.6	25.4
87.5°	9.9	14.1	12.7	11.3	11.3	9.9	31.0	14.1	8.5	4.2	2.8
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)