

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: P594642

Luminaire Tested: **ISS-PA1C-740-U-T2R**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594642
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-740-U-T2R
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE
(1) 70 CRI, 4000K, 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: 7010 lumens
Efficiency: N/A
Efficacy: 143.4 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

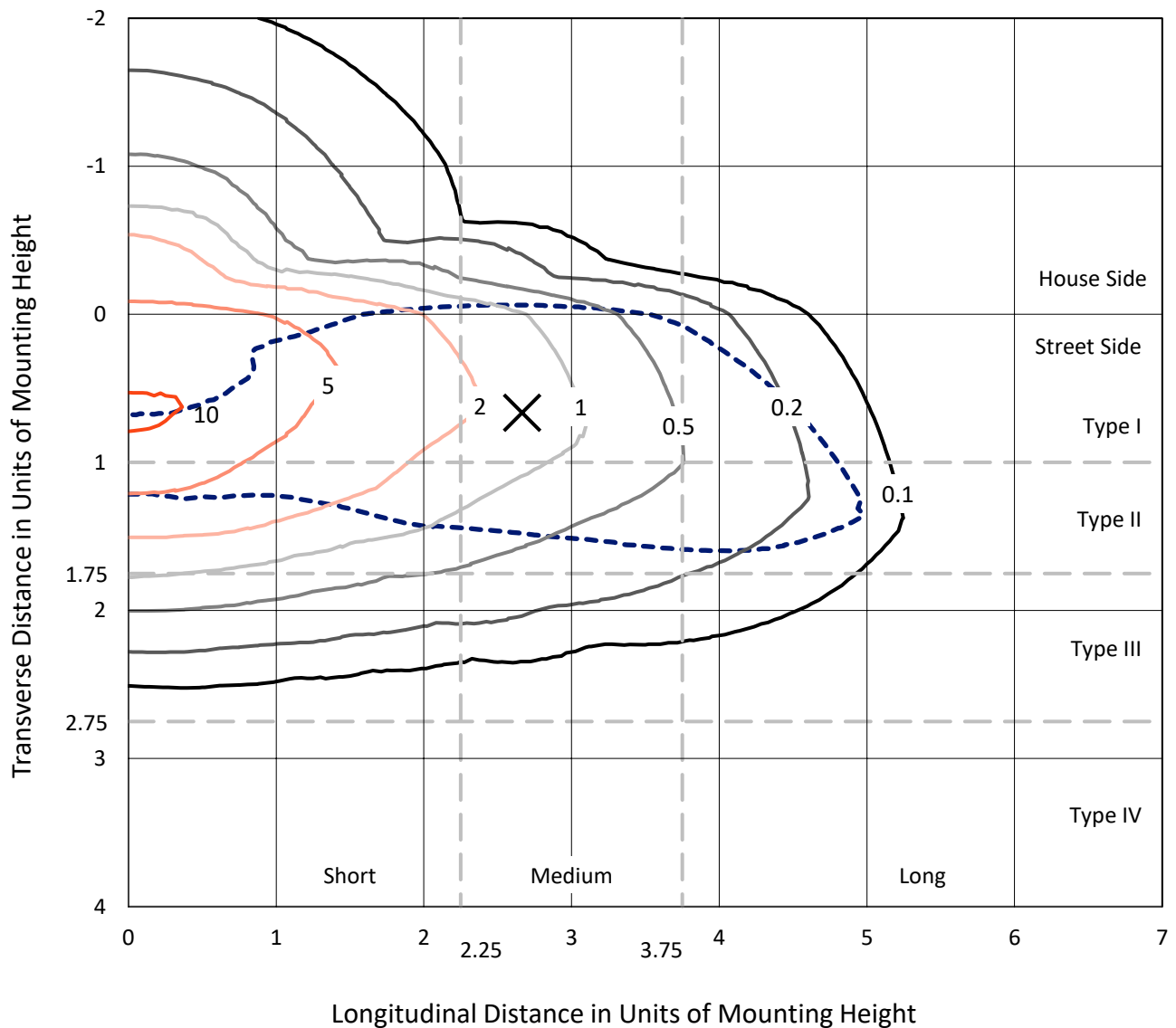
Input Watts (W): 48.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P594642
 CATALOG NUMBER: ISS-PA1C-740-U-T2R

Iso-Footcandle Lines of Horizontal Illumination

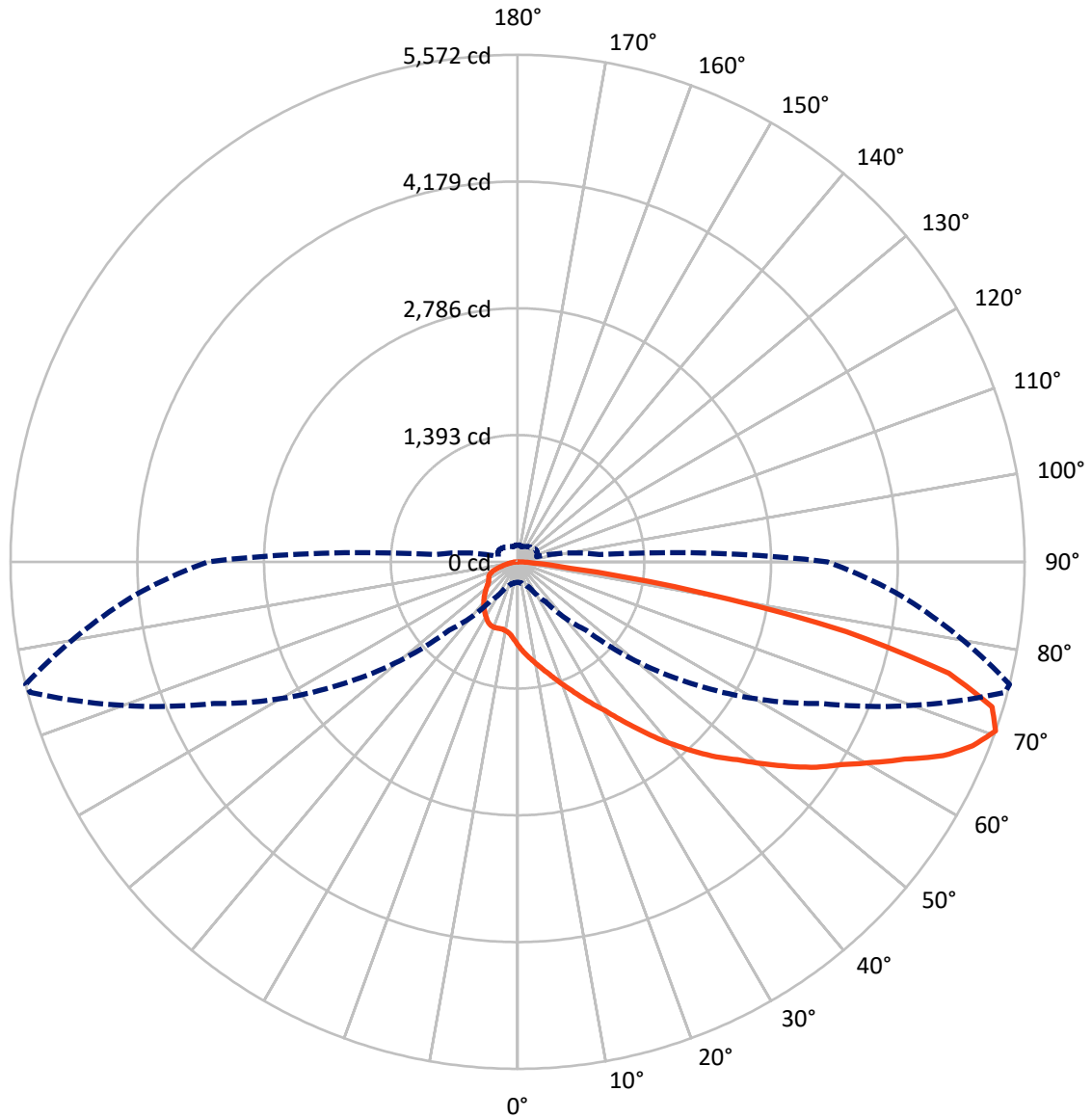
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 11.1 fc
 Type II - Medium - N/A

REPORT NUMBER: P594642
CATALOG NUMBER: ISS-PA1C-740-U-T2R

Luminous Intensity Polar Plot



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

REPORT NUMBER: P594642
 CATALOG NUMBER: ISS-PA1C-740-U-T2R

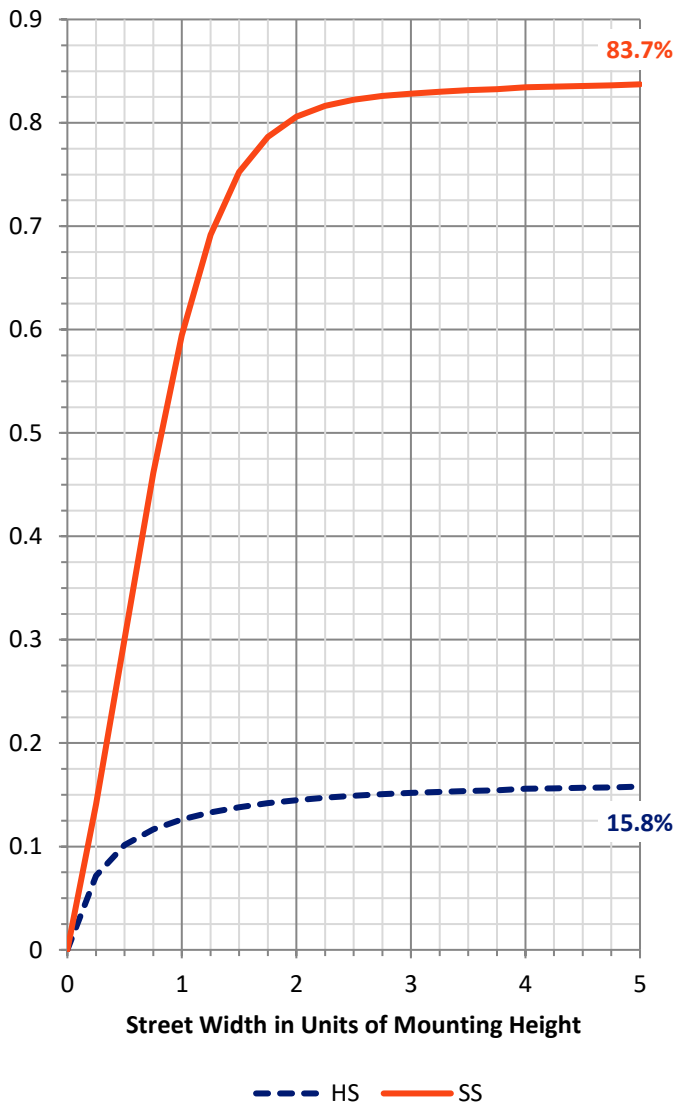
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1124.3	0.0	1124.3
	% Fixture	16.0	0.0	16.0
Street Side	Lumens	5885.7	0.0	5885.7
	% Fixture	84.0	0.0	84.0
Total	Lumens	7010.0	0.0	7010.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.6	1.3
10°-20°	295.8	4.2
20°-30°	545.1	7.8
30°-40°	913.2	13.0
40°-50°	1297.6	18.5
50°-60°	1498.2	21.4
60°-70°	1377.2	19.6
70°-80°	868.4	12.4
80°-90°	124.9	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°	7010.0	100.0
0°-180°	7010.0	100.0

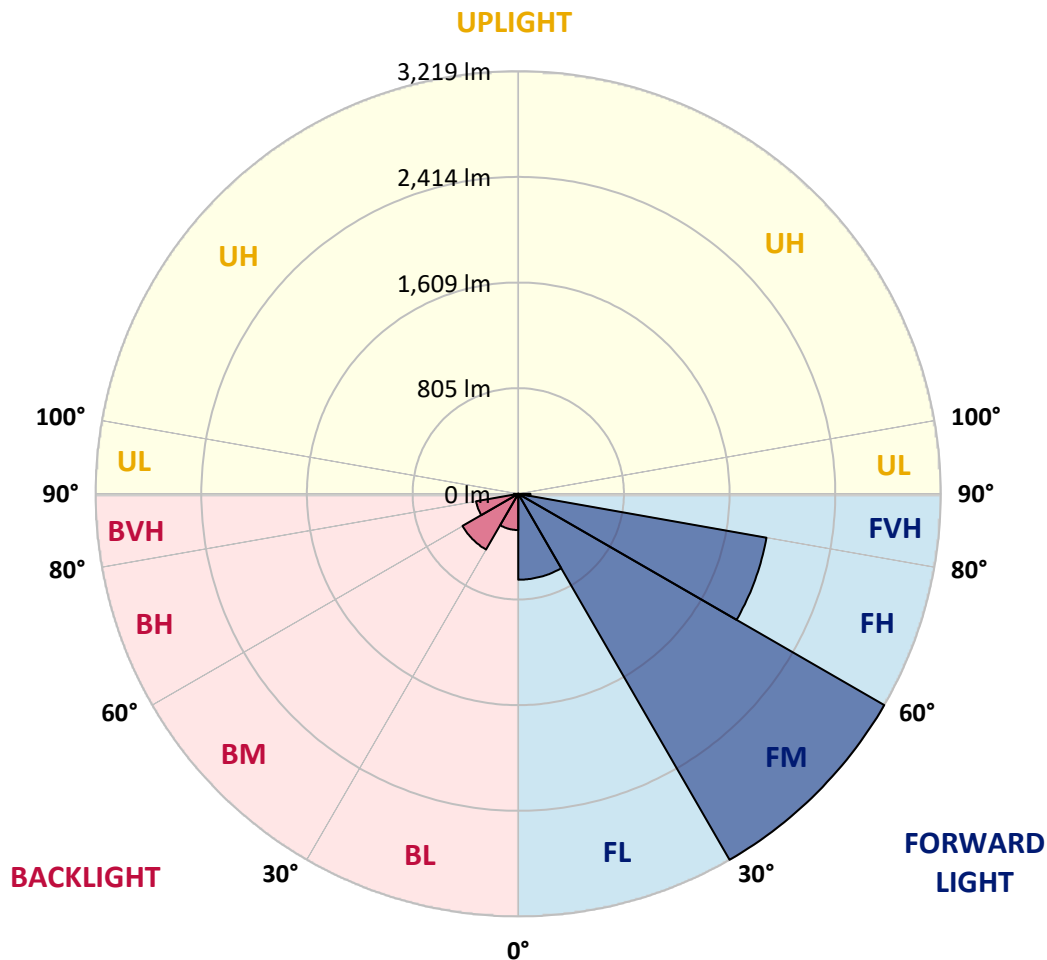


REPORT NUMBER: P594642
 CATALOG NUMBER: ISS-PA1C-740-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	654.5	9.3			
FM (30°-60°)	3218.8	45.9			
FH (60°-80°)	1919.8	27.4			G2/5000
FVH (80°-90°)	92.6	1.3			G1/100
BL (0°-30°)	276.0	3.9	B1/500		
BM (30°-60°)	490.2	7.0	B1/1000		
BH (60°-80°)	325.9	4.6	B1/500		G1/500
BVH (80°-90°)	32.3	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-G2
 Type II Medium





REPORT NUMBER: P594642
 CATALOG NUMBER: ISS-PA1C-740-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	919.6	919.6	919.6	919.6	919.6	919.6	919.6	919.6	919.6	919.6	919.6
2.5°	1106.9	1105.2	1100.2	1091.7	1085.0	1064.7	1037.7	1014.1	978.7	975.3	939.9
5°	1206.5	1199.7	1199.7	1191.3	1182.8	1160.9	1127.2	1085.0	1034.3	1031.0	963.5
7.5°	1253.7	1255.4	1252.0	1245.3	1247.0	1228.4	1198.0	1155.8	1086.7	1083.3	995.5
10°	1321.2	1319.5	1312.8	1307.7	1306.0	1289.1	1262.1	1223.3	1150.8	1144.0	1032.7
12.5°	1387.0	1381.9	1383.6	1381.9	1378.6	1361.7	1336.4	1297.6	1208.1	1204.8	1078.2
15°	1424.1	1422.4	1434.3	1437.6	1451.1	1435.9	1414.0	1370.1	1289.1	1275.6	1132.2
17.5°	1447.7	1446.1	1457.9	1484.9	1510.2	1510.2	1503.4	1456.2	1366.8	1356.6	1193.0
20°	1488.2	1495.0	1515.2	1537.2	1574.3	1581.0	1579.4	1559.1	1456.2	1446.1	1260.5
22.5°	1569.2	1565.9	1582.7	1616.5	1650.2	1660.4	1662.0	1662.0	1559.1	1540.6	1329.6
25°	1743.0	1734.6	1721.1	1717.7	1758.2	1756.5	1751.5	1763.3	1667.1	1653.6	1408.9
27.5°	2073.8	2055.2	2002.9	1898.3	1874.6	1883.1	1857.8	1859.5	1790.3	1773.4	1476.4
30°	2387.6	2379.2	2330.2	2203.7	2070.4	2023.1	1979.3	1960.7	1927.0	1898.3	1549.0
32.5°	2671.1	2672.8	2613.7	2475.3	2338.7	2190.2	2114.3	2075.4	2088.9	2063.6	1648.5
35°	2863.4	2848.3	2811.1	2718.3	2569.8	2428.1	2283.0	2196.9	2269.5	2240.8	1748.1
37.5°	2976.5	2964.7	2934.3	2868.5	2794.3	2657.6	2473.7	2342.0	2483.8	2441.6	1874.6
40°	3033.9	3017.0	2986.6	2959.6	2924.2	2849.9	2688.0	2507.4	2679.5	2642.4	1999.5
42.5°	3040.6	3028.8	3011.9	2998.4	3010.2	3000.1	2897.2	2699.8	2885.4	2844.9	2142.9
45°	3035.5	3044.0	3023.7	3000.1	3023.7	3109.8	3109.8	2892.1	3089.5	3059.2	2279.6
47.5°	3038.9	3030.5	3023.7	3017.0	3020.4	3138.5	3256.6	3072.7	3285.3	3249.8	2439.9
50°	2898.9	2910.7	2968.1	2993.4	3008.6	3145.2	3374.7	3268.4	3528.3	3484.4	2618.8
52.5°	2453.4	2460.2	2721.7	2910.7	2971.4	3118.2	3457.4	3486.1	3767.9	3734.1	2811.1
55°	1889.8	1925.3	2173.3	2635.6	2887.1	3072.7	3482.7	3627.8	4012.5	3985.5	3005.2
57.5°	1555.7	1560.8	1704.2	2117.6	2620.5	3030.5	3508.0	3757.7	4231.9	4201.5	3207.7
60°	1290.8	1279.0	1366.8	1633.4	2176.7	2861.8	3513.1	3860.7	4486.7	4476.5	3416.9
62.5°	948.3	961.8	1046.2	1272.3	1702.5	2519.2	3487.8	3948.4	4790.4	4776.9	3649.7
65°	582.1	599.0	701.9	909.5	1289.1	1999.5	3322.4	3994.0	5109.3	5139.7	3901.2
67.5°	308.8	320.6	381.3	550.1	884.2	1523.7	2924.2	3936.6	5379.3	5392.8	4142.5
70°	226.1	227.8	248.0	310.5	533.2	1059.7	2328.5	3686.9	5544.6	5571.6	4221.8
72.5°	197.4	199.1	207.5	222.7	290.2	646.3	1668.8	3251.5	5475.5	5451.8	4088.5
75°	178.9	178.9	185.6	190.7	212.6	357.7	1022.5	2661.0	4947.3	4895.0	3486.1
77.5°	153.5	153.5	160.3	167.0	183.9	231.2	534.9	1972.5	3783.0	3693.6	2384.2
80°	123.2	123.2	131.6	140.1	162.0	173.8	261.5	1319.5	2163.2	2031.6	1085.0
82.5°	84.4	91.1	106.3	116.4	135.0	123.2	153.5	570.3	681.7	590.6	244.7
85°	50.6	54.0	75.9	87.7	101.2	65.8	94.5	219.4	204.2	178.9	55.7
87.5°	5.1	8.4	30.4	35.4	35.4	18.6	40.5	52.3	59.1	60.7	13.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P594642
 CATALOG NUMBER: ISS-PA1C-740-U-T2R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	919.6	919.6	919.6	919.6	919.6	919.6	919.6	919.6	919.6	919.6	919.6
2.5°	919.6	899.4	860.6	825.1	789.7	766.1	742.4	734.0	722.2	713.8	720.5
5°	928.0	885.9	811.6	749.2	707.0	674.9	659.8	651.3	644.6	642.9	641.2
7.5°	938.2	875.7	776.2	707.0	666.5	651.3	647.9	647.9	647.9	649.6	651.3
10°	960.1	879.1	757.6	683.4	661.4	658.1	659.8	666.5	666.5	668.2	668.2
12.5°	985.4	887.5	744.1	680.0	666.5	668.2	669.9	673.3	673.3	678.3	676.6
15°	1022.5	904.4	742.4	683.4	671.6	668.2	668.2	666.5	666.5	666.5	669.9
17.5°	1069.8	928.0	744.1	683.4	666.5	659.8	654.7	649.6	642.9	646.3	642.9
20°	1117.0	956.7	744.1	674.9	653.0	636.1	620.9	612.5	604.1	602.4	604.1
22.5°	1176.1	990.5	735.7	656.4	624.3	600.7	578.8	567.0	553.5	548.4	545.0
25°	1226.7	1017.5	718.8	629.4	592.3	558.5	529.8	509.6	492.7	489.3	489.3
27.5°	1279.0	1041.1	693.5	595.6	546.7	509.6	477.5	452.2	435.3	433.6	432.0
30°	1327.9	1061.3	659.8	558.5	506.2	462.3	425.2	403.3	388.1	379.7	374.6
32.5°	1392.1	1088.3	627.7	521.4	459.0	415.1	381.3	362.8	342.5	329.0	324.0
35°	1473.1	1120.4	592.3	480.9	416.8	372.9	352.7	325.7	300.3	285.2	280.1
37.5°	1564.2	1166.0	555.1	438.7	374.6	342.5	330.7	288.5	261.5	256.5	254.8
40°	1677.2	1209.8	513.0	394.8	334.1	325.7	305.4	261.5	248.0	246.4	244.7
42.5°	1790.3	1257.1	472.5	351.0	302.0	305.4	276.7	254.8	243.0	239.6	237.9
45°	1921.9	1304.3	432.0	312.2	276.7	276.7	261.5	248.0	237.9	234.5	234.5
47.5°	2060.3	1351.6	388.1	278.4	258.2	248.0	249.7	239.6	232.9	229.5	227.8
50°	2234.1	1397.1	347.6	254.8	246.4	232.9	237.9	231.2	227.8	224.4	222.7
52.5°	2397.7	1417.4	310.5	241.3	239.6	226.1	227.8	224.4	222.7	217.7	216.0
55°	2558.0	1412.3	281.8	234.5	231.2	224.4	221.0	219.4	217.7	212.6	210.9
57.5°	2736.9	1405.6	263.2	232.9	226.1	219.4	219.4	214.3	207.5	207.5	207.5
60°	2922.5	1383.6	254.8	232.9	224.4	219.4	216.0	210.9	204.2	205.9	204.2
62.5°	3131.7	1341.4	249.7	237.9	226.1	217.7	214.3	207.5	199.1	200.8	199.1
65°	3315.6	1255.4	246.4	243.0	229.5	219.4	210.9	202.5	192.4	194.0	192.4
67.5°	3440.5	1110.3	236.2	246.4	234.5	217.7	207.5	195.7	182.2	189.0	187.3
70°	3405.1	902.7	217.7	239.6	239.6	219.4	202.5	187.3	172.1	185.6	180.5
72.5°	3130.0	678.3	182.2	216.0	236.2	219.4	192.4	173.8	160.3	168.7	158.6
75°	2569.8	460.6	145.1	172.1	221.0	221.0	183.9	160.3	143.4	138.4	135.0
77.5°	1603.0	286.9	113.1	126.6	185.6	219.4	175.5	143.4	119.8	116.4	113.1
80°	634.4	153.5	89.4	91.1	136.7	200.8	163.7	121.5	96.2	92.8	86.1
82.5°	145.1	77.6	62.4	60.7	84.4	163.7	148.5	96.2	74.2	74.2	62.4
85°	43.9	40.5	40.5	38.8	42.2	84.4	114.7	65.8	50.6	35.4	30.4
87.5°	11.8	16.9	15.2	13.5	13.5	11.8	37.1	16.9	10.1	5.1	3.4
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)