

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: P595222

Luminaire Tested: **IST-PA1D-740-U-T3**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595222
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/22/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: IST-PA1D-740-U-T3
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 70 CRI, 4000K, 800mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8235 lumens
Efficiency: N/A
Efficacy: 132.0 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G2

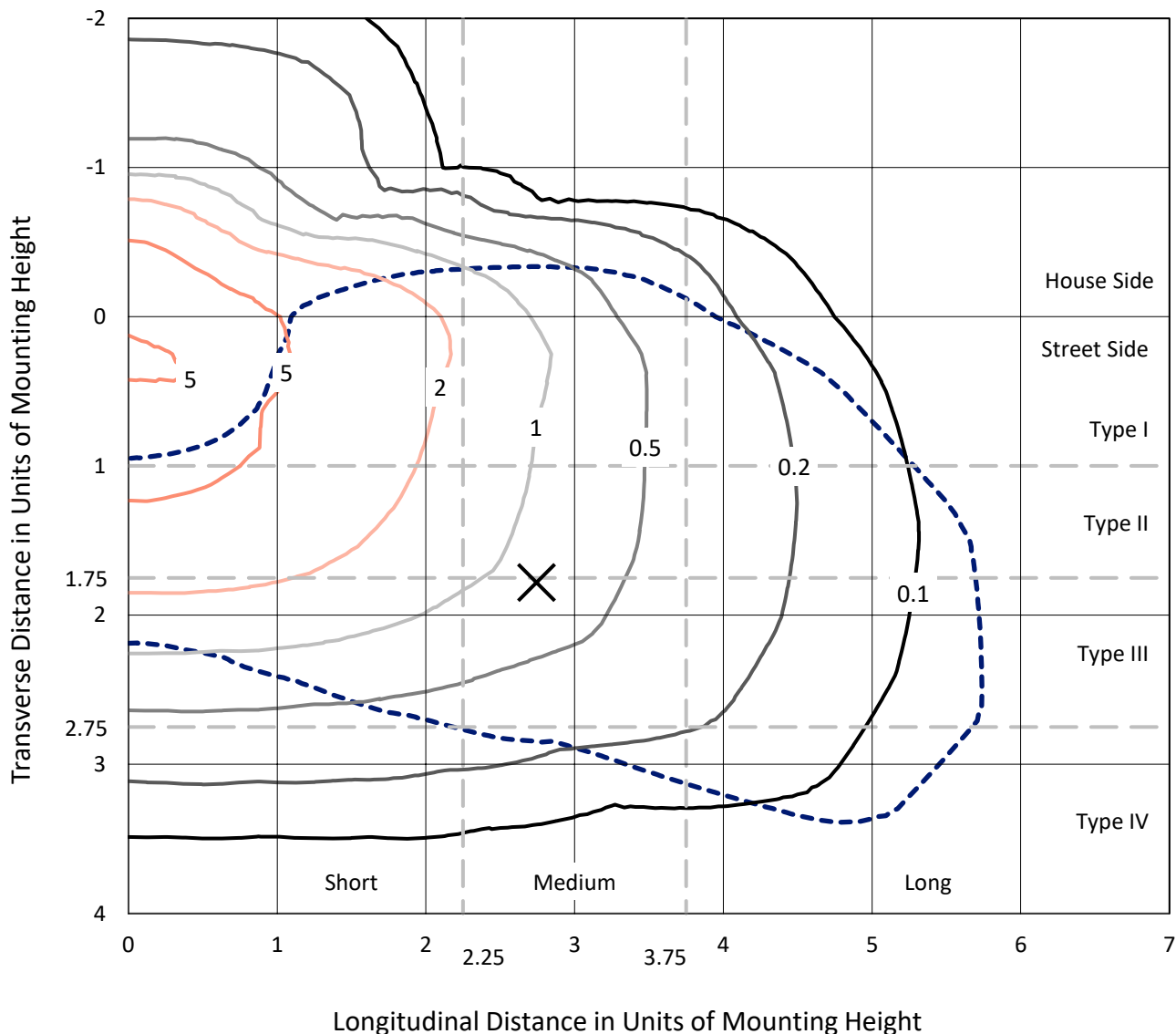
Input Watts (W): 62.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P595222
 CATALOG NUMBER: IST-PA1D-740-U-T3

Iso-Footcandle Lines of Horizontal Illumination

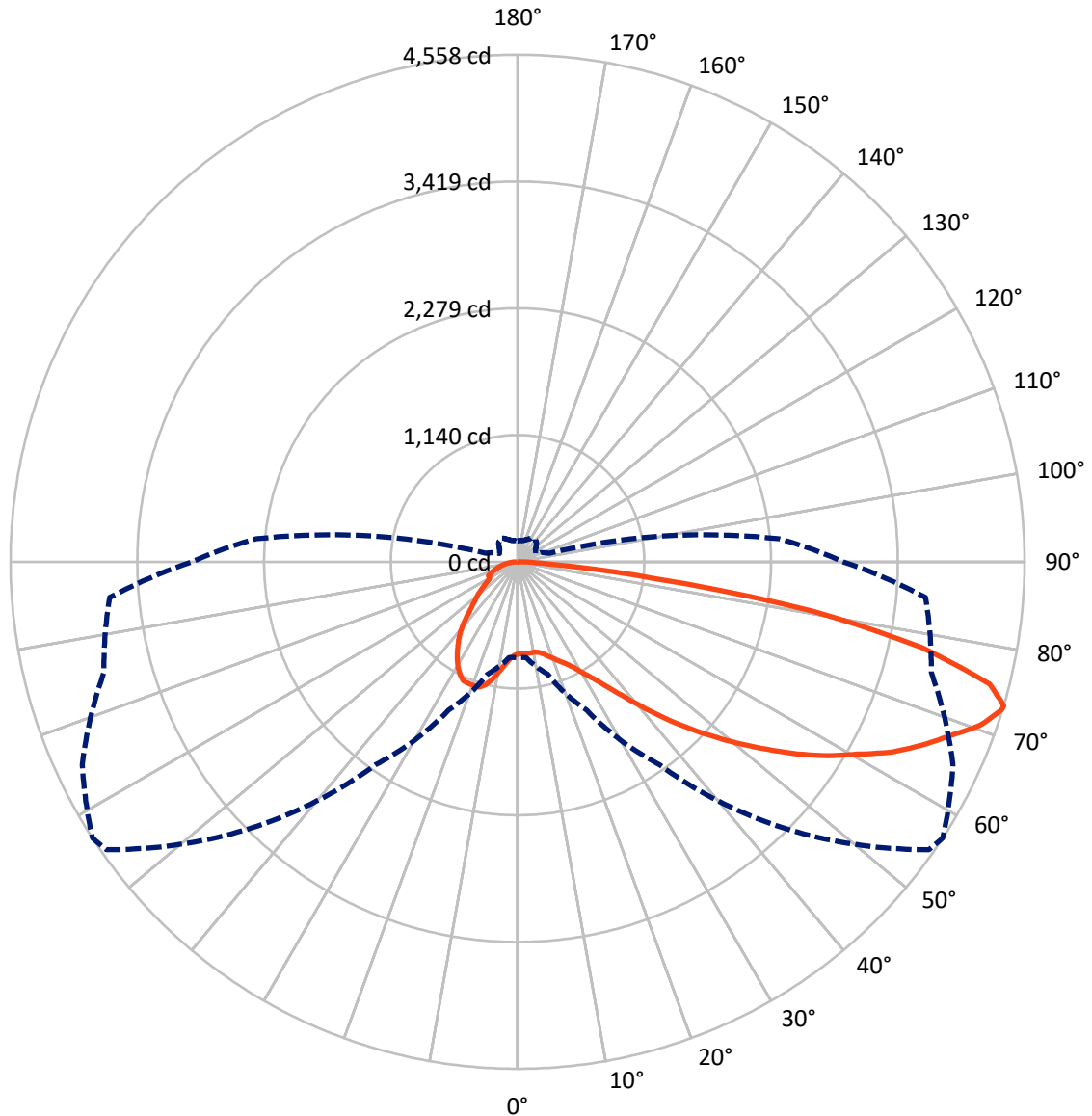
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 7.1 fc
 Type IV - Medium - N/A

REPORT NUMBER: P595222
CATALOG NUMBER: IST-PA1D-740-U-T3

Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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 CATALOG NUMBER: IST-PA1D-740-U-T3

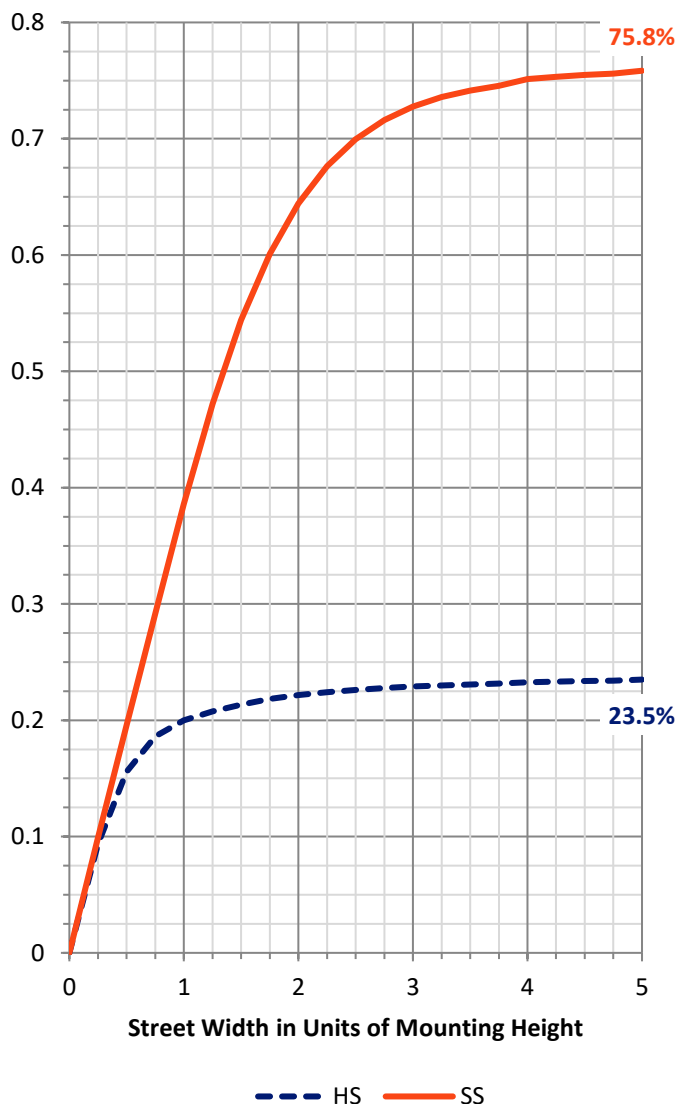
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1964.6	0.0	1964.6
	% Fixture	23.9	0.0	23.9
Street Side	Lumens	6270.4	0.0	6270.4
	% Fixture	76.1	0.0	76.1
Total	Lumens	8235.0	0.0	8235.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.8	1.0
10°-20°	272.4	3.3
20°-30°	502.9	6.1
30°-40°	776.6	9.4
40°-50°	1169.0	14.2
50°-60°	1710.9	20.8
60°-70°	2020.4	24.5
70°-80°	1446.5	17.6
80°-90°	253.5	3.1
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°	8235.0	100.0
0°-180°	8235.0	100.0

Coefficient of Utilization

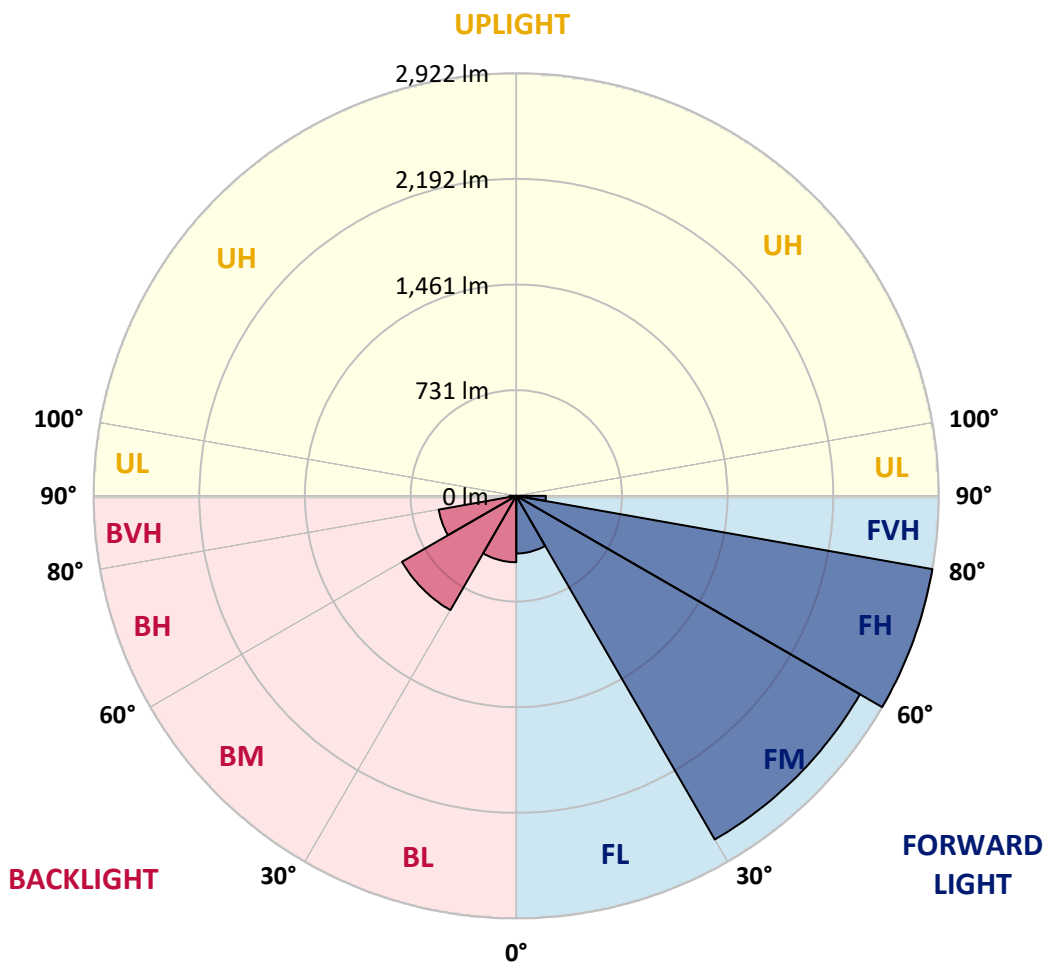


REPORT NUMBER: P595222
 CATALOG NUMBER: IST-PA1D-740-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	399.0	4.8			
FM (30°-60°)	2744.1	33.3			
FH (60°-80°)	2922.2	35.5			G2/5000
FVH (80°-90°)	205.0	2.5			G2/225
BL (0°-30°)	459.1	5.6	B1/500		
BM (30°-60°)	912.3	11.1	B1/1000		
BH (60°-80°)	544.7	6.6	B2/1000		G2/1000
BVH (80°-90°)	48.4	0.6			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 IV Medium





REPORT NUMBER: P595222

CATALOG NUMBER: IST-PA1D-740-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	829.7	829.7	829.7	829.7	829.7	829.7	829.7	829.7	829.7	829.7	829.7
2.5°	819.6	823.6	821.6	823.6	829.7	825.6	825.6	827.7	829.7	827.7	831.7
5°	785.3	787.3	791.3	799.4	813.5	817.6	827.7	827.7	831.7	835.7	841.8
7.5°	728.7	732.8	740.9	748.9	773.2	797.4	823.6	827.7	841.8	851.9	855.9
10°	718.7	722.7	724.7	736.8	761.0	785.3	817.6	825.6	851.9	868.0	886.2
12.5°	708.6	712.6	718.7	734.8	765.1	791.3	825.6	833.7	866.0	898.3	920.5
15°	716.6	718.7	724.7	740.9	771.1	807.5	851.9	857.9	894.3	934.7	969.0
17.5°	736.8	738.8	736.8	751.0	779.2	821.6	882.2	892.3	936.7	977.0	1011.4
20°	783.3	785.3	777.2	777.2	797.4	839.8	914.5	928.6	983.1	1027.5	1061.8
22.5°	884.2	880.1	860.0	833.7	833.7	868.0	950.8	971.0	1039.6	1076.0	1106.2
25°	1027.5	1027.5	995.2	946.8	914.5	910.4	993.2	1015.4	1096.1	1140.6	1158.7
27.5°	1201.1	1203.1	1150.7	1086.1	1023.5	993.2	1053.8	1076.0	1166.8	1213.2	1219.3
30°	1354.5	1356.6	1304.1	1243.5	1166.8	1100.2	1134.5	1158.7	1263.7	1300.0	1279.8
32.5°	1508.0	1510.0	1473.6	1390.9	1310.1	1227.4	1237.5	1251.6	1358.6	1392.9	1360.6
35°	1641.2	1647.2	1610.9	1548.3	1463.5	1388.9	1370.7	1372.7	1469.6	1491.8	1449.4
37.5°	1776.4	1776.4	1754.2	1695.7	1623.0	1540.3	1516.0	1522.1	1608.9	1631.1	1570.5
40°	1948.0	1956.1	1944.0	1871.3	1788.6	1719.9	1695.7	1703.8	1798.6	1786.5	1721.9
42.5°	2156.0	2174.1	2153.9	2075.2	1986.4	1909.7	1909.7	1909.7	1990.4	1992.4	1895.5
45°	2422.4	2422.4	2402.2	2333.6	2216.5	2139.8	2113.6	2119.6	2190.3	2198.3	2085.3
47.5°	2644.5	2664.7	2642.5	2592.0	2499.1	2426.5	2343.7	2333.6	2392.1	2392.1	2295.2
50°	2824.1	2860.5	2842.3	2864.5	2797.9	2761.6	2592.0	2563.7	2583.9	2604.1	2497.1
52.5°	2973.5	3001.8	2995.7	3060.3	3092.6	3112.8	2844.3	2799.9	2816.1	2814.0	2717.2
55°	2983.6	2993.7	3084.6	3229.9	3357.1	3452.0	3098.7	3050.2	3034.1	3026.0	2951.3
57.5°	2925.1	2931.1	3112.8	3284.4	3561.0	3670.0	3338.9	3290.5	3268.3	3240.0	3209.7
60°	2783.8	2814.0	3052.3	3316.7	3682.1	3839.5	3563.0	3512.5	3496.4	3435.8	3504.4
62.5°	2604.1	2618.2	2856.4	3250.1	3698.2	3912.2	3799.2	3768.9	3718.4	3631.6	3766.9
65°	2349.8	2347.7	2557.7	3054.3	3615.5	3948.5	3999.0	3982.9	3920.3	3770.9	4001.0
67.5°	1929.9	1976.3	2182.2	2707.1	3415.6	3984.9	4202.9	4182.7	4083.8	3896.1	4112.1
70°	1471.6	1499.9	1734.1	2186.2	3017.9	3886.0	4402.8	4408.8	4229.1	3922.3	4063.6
72.5°	938.7	987.1	1172.9	1592.7	2416.4	3518.6	4521.9	4550.1	4309.9	3886.0	3762.8
73°	860.0	864.0	1045.7	1473.6	2228.6	3387.4	4513.8	4558.2	4318.0	3849.6	3680.1
75°	512.7	535.0	644.0	979.1	1590.7	2721.2	4295.8	4384.6	4275.6	3688.1	3225.9
77.5°	240.2	256.4	316.9	516.8	866.0	1637.2	3611.4	3716.4	3789.1	3227.9	2458.8
80°	127.2	129.2	155.4	260.4	464.3	674.2	2517.3	2690.9	2793.9	2430.5	1653.3
82.5°	107.0	107.0	121.1	167.6	296.7	262.4	1037.6	1235.4	1514.0	1197.1	650.0
85°	86.8	88.8	121.1	125.2	212.0	135.3	248.3	310.9	587.4	528.9	72.7
87.5°	28.3	32.3	68.6	88.8	113.0	52.5	62.6	68.6	68.6	100.9	24.2
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: P595222
 CATALOG NUMBER: IST-PA1D-740-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	829.7	829.7	829.7	829.7	829.7	829.7	829.7	829.7	829.7	829.7	829.7
2.5°	833.7	833.7	835.7	837.8	841.8	841.8	845.8	847.8	851.9	853.9	847.8
5°	841.8	845.8	849.9	862.0	876.1	888.2	900.3	910.4	920.5	926.6	924.6
7.5°	864.0	870.1	886.2	908.4	936.7	954.8	973.0	991.2	999.2	1003.3	1003.3
10°	894.3	906.4	936.7	973.0	1005.3	1033.6	1047.7	1059.8	1063.8	1067.9	1063.8
12.5°	936.7	952.8	999.2	1045.7	1082.0	1096.1	1094.1	1078.0	1055.8	1051.7	1047.7
15°	991.2	1011.4	1063.8	1118.4	1146.6	1128.4	1082.0	1065.9	1061.8	1073.9	1069.9
17.5°	1037.6	1061.8	1126.4	1182.9	1176.9	1114.3	1100.2	1108.3	1104.2	1106.2	1106.2
20°	1082.0	1116.3	1185.0	1223.3	1170.8	1130.5	1118.4	1108.3	1096.1	1100.2	1096.1
22.5°	1138.5	1162.8	1241.5	1243.5	1162.8	1130.5	1104.2	1084.0	1080.0	1082.0	1084.0
25°	1182.9	1221.3	1289.9	1229.4	1162.8	1098.2	1061.8	1057.8	1059.8	1071.9	1067.9
27.5°	1243.5	1281.9	1328.3	1221.3	1114.3	1045.7	1031.5	1029.5	1015.4	1019.4	1019.4
30°	1300.0	1346.5	1348.5	1221.3	1053.8	1001.3	981.1	944.7	914.5	920.5	918.5
32.5°	1376.7	1417.1	1352.5	1172.9	985.1	942.7	888.2	831.7	817.6	825.6	827.7
35°	1465.6	1497.9	1356.6	1092.1	916.5	860.0	761.0	728.7	726.7	732.8	738.8
37.5°	1582.6	1600.8	1386.8	999.2	849.9	730.8	654.1	646.0	627.8	615.7	617.7
40°	1726.0	1703.8	1445.4	916.5	771.1	613.7	581.4	559.2	524.9	490.5	496.6
42.5°	1885.5	1822.9	1463.5	849.9	664.1	541.0	510.7	476.4	434.0	397.7	395.7
45°	2057.0	1956.1	1447.4	797.4	557.2	486.5	454.2	413.8	363.4	333.1	333.1
47.5°	2260.9	2083.3	1396.9	755.0	482.5	438.1	397.7	357.3	323.0	294.7	294.7
50°	2485.0	2230.6	1360.6	680.3	430.0	391.6	351.3	319.0	292.7	270.5	270.5
52.5°	2721.2	2369.9	1330.3	571.3	383.6	349.2	321.0	294.7	272.5	244.3	240.2
55°	2961.4	2503.2	1344.4	466.3	341.2	319.0	300.8	274.5	266.5	260.4	256.4
57.5°	3211.7	2648.5	1378.8	381.5	304.8	302.8	294.7	312.9	331.1	319.0	312.9
60°	3407.5	2761.6	1382.8	321.0	282.6	319.0	359.3	365.4	316.9	288.7	286.7
62.5°	3563.0	2868.6	1287.9	278.6	288.7	375.5	383.6	323.0	274.5	262.4	262.4
65°	3643.7	2906.9	1035.6	254.4	300.8	359.3	347.2	290.7	256.4	254.4	254.4
67.5°	3603.4	2876.6	724.7	228.1	266.5	310.9	310.9	266.5	236.2	246.3	242.2
70°	3409.6	2727.2	478.4	205.9	234.2	280.6	288.7	248.3	220.0	226.1	220.0
72.5°	3005.8	2460.8	314.9	181.7	201.9	248.3	268.5	228.1	201.9	199.8	193.8
73°	2927.1	2359.8	296.7	177.6	195.8	240.2	262.4	224.1	197.8	191.8	187.7
75°	2483.0	1968.2	224.1	159.5	173.6	216.0	244.3	209.9	181.7	173.6	169.6
77.5°	1808.7	1364.6	167.6	135.3	145.3	187.7	216.0	191.8	161.5	151.4	149.4
80°	1128.4	742.9	125.2	109.0	115.1	157.5	189.8	171.6	139.3	127.2	125.2
82.5°	442.1	242.2	86.8	80.7	84.8	119.1	159.5	149.4	117.1	107.0	100.9
85°	72.7	82.8	56.5	54.5	54.5	84.8	121.1	115.1	78.7	68.6	60.6
87.5°	20.2	38.4	22.2	20.2	20.2	36.3	66.6	52.5	32.3	26.2	24.2
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)