

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: P595355

Luminaire Tested: **IST-PA1F-727-U-T2U**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P595355  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/22/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: IST-PA1F-727-U-T2U  
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE  
(1) 70 CRI, 2700K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9411 lumens  
Efficiency: N/A  
Efficacy: 100.7 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

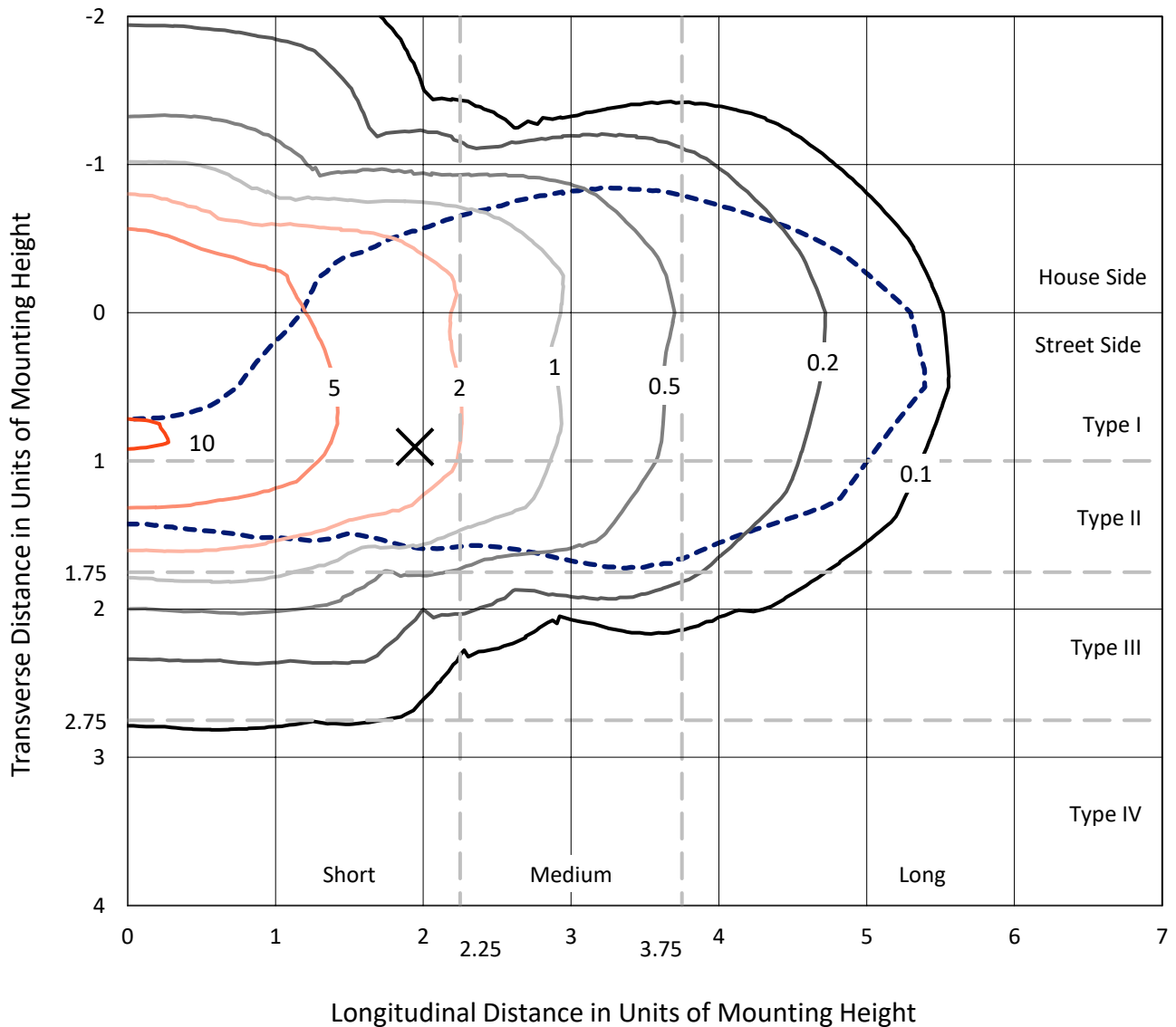
Input Watts (W): 93.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

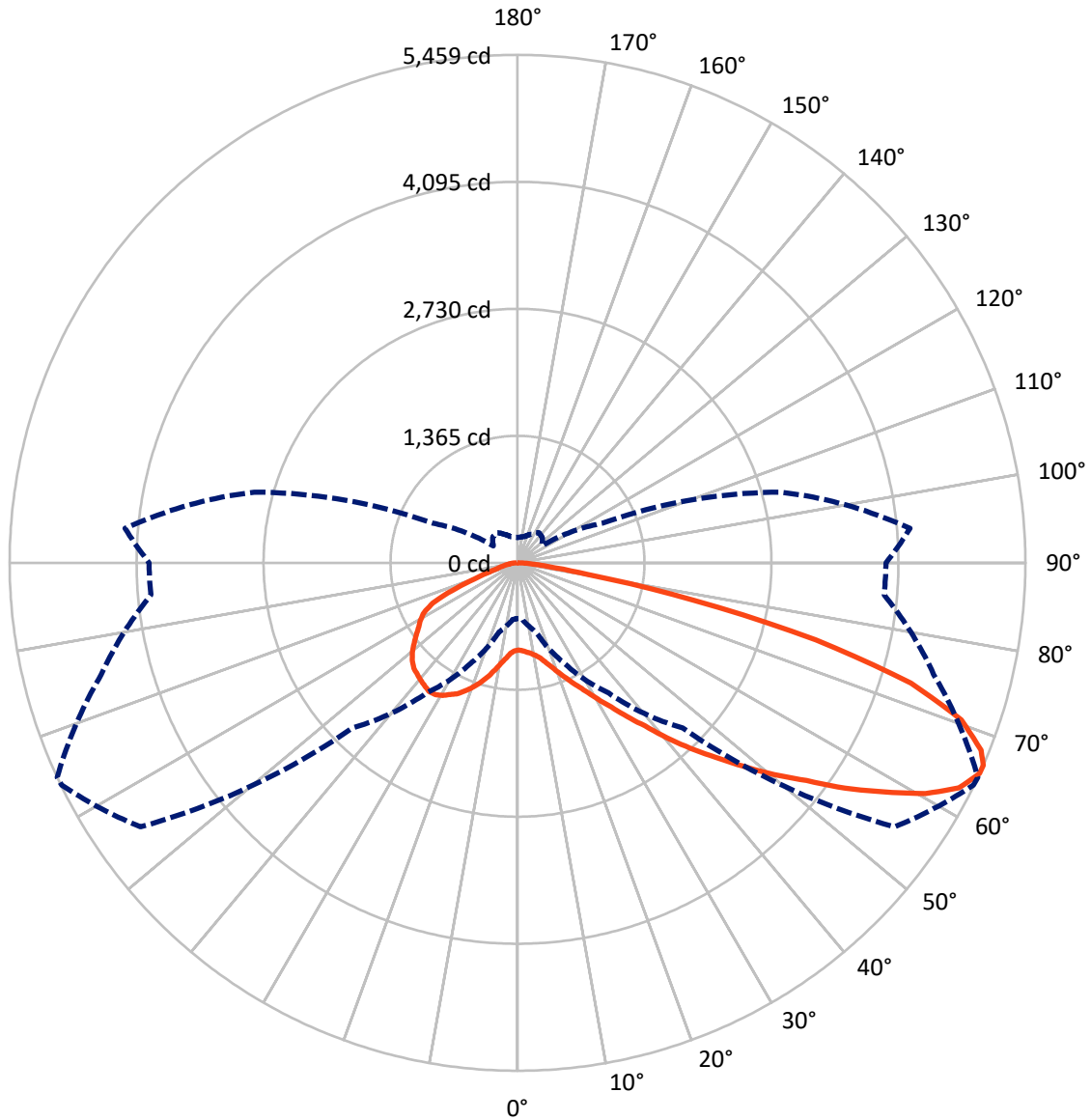
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 10.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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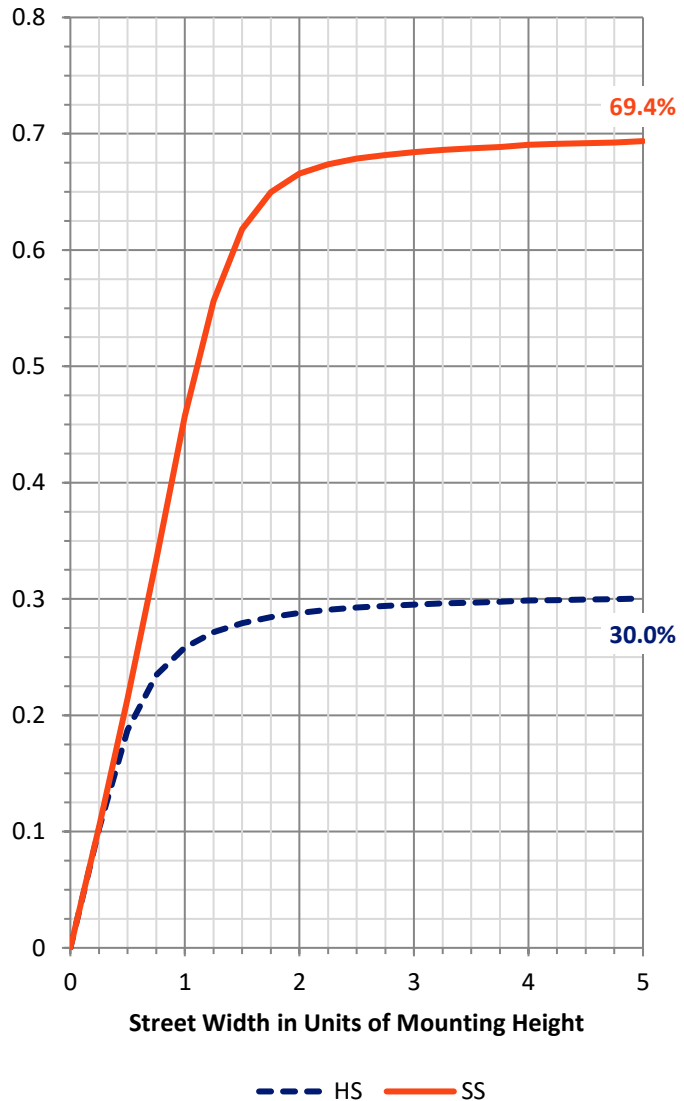
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2857.6	0.0	2857.6
	% Fixture	30.4	0.0	30.4
<b>Street Side</b>	Lumens	6553.4	0.0	6553.4
	% Fixture	69.6	0.0	69.6
<b>Total</b>	Lumens	9411.0	0.0	9411.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	95.7	1.0
10°-20°	333.6	3.5
20°-30°	653.2	6.9
30°-40°	1067.4	11.3
40°-50°	1694.2	18.0
50°-60°	2179.0	23.2
60°-70°	1965.0	20.9
70°-80°	1218.8	13.0
80°-90°	204.2	2.2
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°	9411.0	100.0
0°-180°	9411.0	100.0

**Coefficient of Utilization**

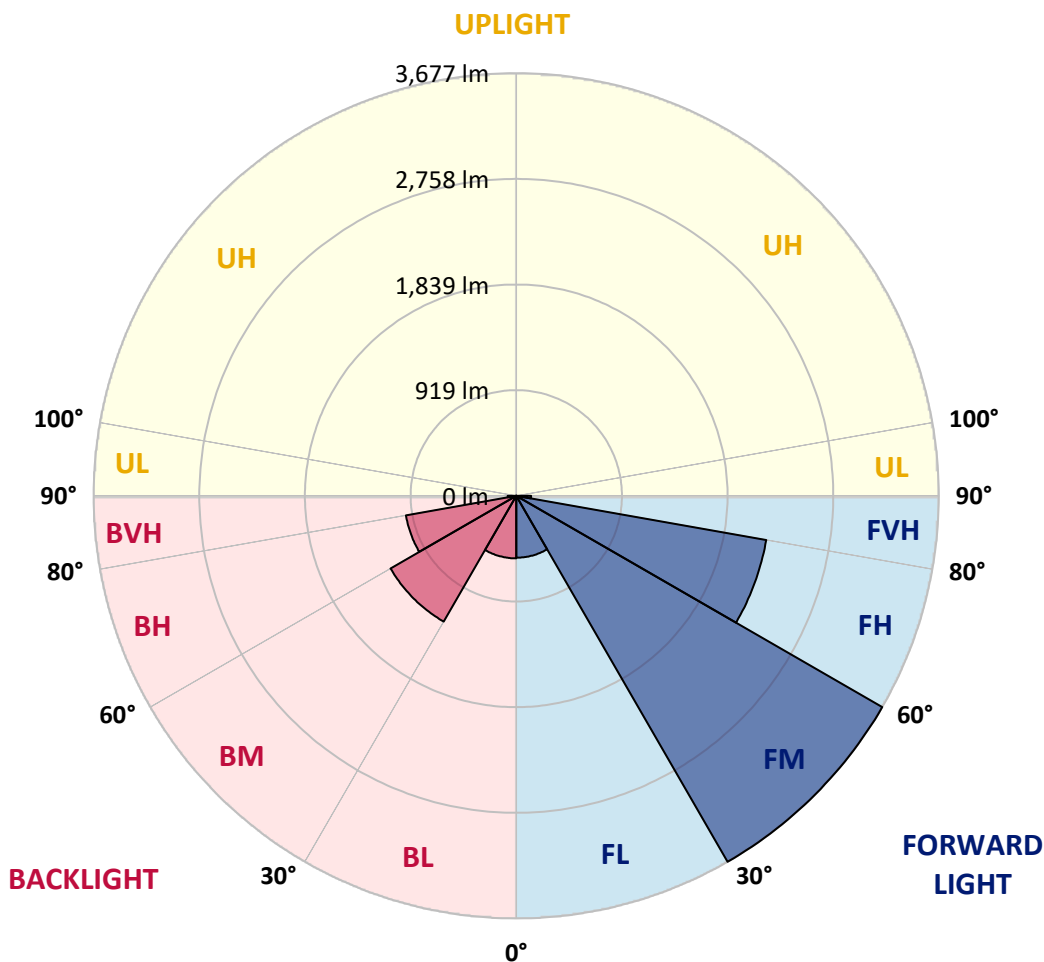


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	538.2	5.7			
FM (30°-60°)	3677.3	39.1			
FH (60°-80°)	2208.8	23.5			G2/5000
FVH (80°-90°)	129.2	1.4			G2/225
BL (0°-30°)	544.3	5.8	B2/1000		
BM (30°-60°)	1263.3	13.4	B2/2500		
BH (60°-80°)	975.0	10.4	B2/1000		G2/1000
BVH (80°-90°)	75.0	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 II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	938.1	938.1	938.1	938.1	938.1	938.1	938.1	938.1	938.1	938.1	938.1
2.5°	940.3	942.6	944.9	940.3	944.9	947.2	942.6	942.6	944.9	940.3	940.3
5°	933.5	935.8	940.3	942.6	951.7	956.3	958.6	958.6	960.9	958.6	960.9
7.5°	915.2	915.2	924.4	928.9	942.6	958.6	967.7	981.4	981.4	983.7	990.5
10°	933.5	933.5	940.3	947.2	958.6	972.3	986.0	1002.0	1006.5	1022.5	1031.6
12.5°	960.9	965.4	974.6	983.7	997.4	1013.4	1024.8	1040.8	1043.0	1059.0	1077.3
15°	1006.5	1011.1	1015.7	1027.1	1045.3	1065.9	1086.4	1097.8	1102.4	1111.5	1125.2
17.5°	1075.0	1079.6	1081.8	1088.7	1102.4	1129.8	1159.4	1168.6	1173.1	1173.1	1184.5
20°	1191.4	1189.1	1184.5	1170.9	1170.9	1196.0	1237.0	1253.0	1257.6	1248.5	1241.6
22.5°	1326.1	1323.8	1305.5	1289.5	1278.1	1282.7	1323.8	1351.2	1348.9	1330.6	1303.2
25°	1501.8	1506.4	1476.7	1435.6	1401.4	1392.2	1417.3	1444.7	1449.3	1415.1	1369.4
27.5°	1711.8	1704.9	1689.0	1622.8	1556.6	1515.5	1529.2	1558.9	1561.1	1524.6	1451.6
30°	1958.3	1946.9	1905.8	1837.3	1734.6	1677.5	1666.1	1691.2	1698.1	1636.5	1531.5
32.5°	2232.2	2220.7	2168.2	2063.3	1951.4	1855.6	1819.0	1853.3	1848.7	1778.0	1631.9
35°	2563.1	2560.8	2465.0	2334.9	2193.4	2065.5	2015.3	2015.3	2029.0	1924.0	1759.7
37.5°	3005.9	3024.1	2882.6	2679.5	2480.9	2309.8	2225.3	2220.7	2223.0	2108.9	1903.5
40°	3405.3	3398.4	3316.3	3126.8	2837.0	2617.9	2492.3	2465.0	2471.8	2325.7	2090.6
42.5°	3635.8	3642.7	3622.1	3540.0	3286.6	3010.4	2795.9	2722.9	2725.1	2542.6	2268.7
45°	3779.6	3786.4	3784.2	3825.2	3724.8	3464.6	3158.8	2989.9	2980.8	2789.1	2478.7
47.5°	3861.8	3866.3	3896.0	3980.4	4062.6	4003.3	3560.5	3286.6	3268.3	3019.6	2688.6
50°	3770.5	3772.8	3891.4	4092.3	4293.1	4473.4	3971.3	3581.0	3576.5	3275.2	2894.0
52.5°	3291.2	3332.3	3594.7	4014.7	4464.3	4806.7	4446.1	3928.0	3889.2	3517.1	3099.5
55°	2686.3	2704.6	3005.9	3540.0	4432.4	5012.1	4804.4	4302.3	4274.9	3786.4	3300.3
57.5°	2097.5	2115.8	2474.1	2919.1	3943.9	5000.7	5057.7	4706.2	4644.6	4021.5	3501.2
60°	1353.4	1410.5	1825.9	2373.7	3193.0	4653.7	5185.5	5094.2	5037.2	4254.3	3672.3
62.5°	919.8	928.9	1189.1	1759.7	2389.6	3781.9	5176.4	5333.9	5324.8	4487.1	3843.5
65°	598.0	611.7	769.2	1191.4	1709.5	2510.6	4948.2	5450.3	5459.4	4630.9	3955.3
66°	506.7	515.8	636.8	1002.0	1497.2	1990.2	4747.3	5441.2	5459.4	4697.1	3989.6
67.5°	440.5	447.3	509.0	739.5	1223.3	1431.0	4224.7	5320.2	5372.7	4758.7	4032.9
70°	378.9	388.0	445.1	504.4	874.1	835.3	2674.9	5009.8	5062.3	4788.4	4060.3
72.5°	312.7	319.5	376.6	456.5	634.5	561.5	1180.0	4288.6	4420.9	4678.9	4017.0
75°	246.5	251.1	303.6	381.2	486.1	438.2	513.5	3145.1	3311.7	4124.2	3848.1
77.5°	191.7	194.0	235.1	296.7	445.1	340.1	317.2	1531.5	1937.7	3186.2	3389.3
80°	132.4	136.9	173.5	223.7	326.4	269.3	212.3	598.0	760.0	2115.8	2569.9
82.5°	86.7	89.0	118.7	168.9	216.8	257.9	139.2	289.9	319.5	974.6	1113.8
85°	59.3	59.3	84.4	105.0	148.4	171.2	91.3	152.9	166.6	369.7	134.7
87.5°	29.7	29.7	41.1	54.8	70.8	66.2	54.8	54.8	54.8	121.0	38.8
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°	938.1	938.1	938.1	938.1	938.1	938.1	938.1	938.1	938.1	938.1	938.1
2.5°	942.6	942.6	944.9	947.2	949.5	949.5	951.7	951.7	949.5	951.7	954.0
5°	963.2	965.4	970.0	976.9	988.3	999.7	1011.1	1017.9	1024.8	1027.1	1022.5
7.5°	995.1	999.7	1015.7	1033.9	1052.2	1079.6	1095.5	1104.7	1109.2	1113.8	1109.2
10°	1036.2	1045.3	1068.1	1100.1	1132.1	1166.3	1184.5	1198.2	1200.5	1205.1	1200.5
12.5°	1084.1	1100.1	1134.3	1180.0	1218.8	1253.0	1266.7	1257.6	1237.0	1227.9	1225.6
15°	1141.2	1157.2	1205.1	1262.1	1307.8	1323.8	1303.2	1273.6	1250.7	1248.5	1246.2
17.5°	1191.4	1214.2	1280.4	1339.7	1383.1	1367.1	1312.4	1294.1	1287.3	1296.4	1294.1
20°	1255.3	1273.6	1339.7	1412.8	1435.6	1374.0	1335.2	1323.8	1316.9	1316.9	1312.4
22.5°	1307.8	1321.5	1401.4	1481.3	1467.6	1378.5	1351.2	1328.3	1305.5	1303.2	1296.4
25°	1369.4	1374.0	1458.4	1545.2	1472.1	1383.1	1335.2	1296.4	1273.6	1266.7	1269.0
27.5°	1426.5	1437.9	1510.9	1588.5	1460.7	1358.0	1280.4	1230.2	1196.0	1193.7	1193.7
30°	1499.5	1499.5	1565.7	1636.5	1435.6	1294.1	1191.4	1118.4	1091.0	1088.7	1084.1
32.5°	1581.7	1568.0	1631.9	1670.7	1380.8	1207.4	1070.4	988.3	944.9	935.8	928.9
35°	1695.8	1666.1	1711.8	1677.5	1326.1	1084.1	917.5	823.9	792.0	778.3	778.3
37.5°	1828.2	1784.8	1832.7	1657.0	1241.6	940.3	757.7	687.0	652.8	632.2	639.1
40°	1983.4	1928.6	1956.0	1634.2	1150.3	780.6	625.4	582.0	540.9	513.5	513.5
42.5°	2166.0	2074.7	2095.2	1611.4	1020.2	641.3	540.9	511.3	479.3	451.9	458.8
45°	2341.7	2252.7	2232.2	1588.5	883.3	547.8	506.7	486.1	456.5	424.5	424.5
47.5°	2544.8	2430.7	2353.1	1547.4	748.6	518.1	515.8	486.1	429.1	383.4	378.9
50°	2736.6	2631.6	2462.7	1485.8	673.3	543.2	513.5	442.8	388.0	358.3	356.0
52.5°	2939.7	2830.1	2551.7	1410.5	634.5	531.8	472.4	406.3	365.2	335.5	328.7
55°	3140.5	3083.5	2631.6	1337.5	572.9	495.3	438.2	383.4	340.1	312.7	308.1
57.5°	3368.8	3345.9	2700.0	1264.4	477.0	449.6	413.1	367.5	326.4	305.8	303.6
60°	3567.3	3647.2	2782.2	1209.7	406.3	415.4	401.7	365.2	335.5	312.7	312.7
62.5°	3777.3	3937.1	2855.2	1138.9	353.8	394.8	404.0	362.9	324.1	303.6	303.6
65°	3959.9	4233.8	2930.6	1008.8	317.2	378.9	397.1	337.8	292.1	276.2	271.6
66°	4037.5	4318.2	2953.4	928.9	303.6	367.5	385.7	324.1	278.4	264.8	262.5
67.5°	4128.8	4450.6	2980.8	757.7	283.0	342.4	360.6	303.6	255.6	246.5	241.9
70°	4256.6	4478.0	2964.8	495.3	246.5	294.4	321.8	271.6	228.2	221.4	214.5
72.5°	4270.3	4290.8	2805.0	312.7	214.5	253.3	283.0	244.2	200.8	194.0	189.4
75°	4044.4	3802.4	2373.7	223.7	189.4	223.7	248.8	212.3	166.6	157.5	152.9
77.5°	3453.2	3017.3	1707.2	166.6	164.3	191.7	207.7	184.9	139.2	132.4	130.1
80°	2423.9	2047.3	855.9	125.5	130.1	159.8	173.5	155.2	116.4	107.3	102.7
82.5°	981.4	869.6	294.4	93.6	98.1	121.0	148.4	127.8	89.0	77.6	68.5
85°	111.8	189.4	127.8	63.9	66.2	82.2	100.4	77.6	52.5	43.4	36.5
87.5°	22.8	41.1	45.6	25.1	22.8	32.0	45.6	27.4	18.3	6.8	9.1
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)