

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: P595357

Luminaire Tested: **IST-PA1F-727-U-T3**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595357
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-PA1F-727-U-T3
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 70 CRI, 2700K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9311 lumens
Efficiency: N/A
Efficacy: 99.6 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

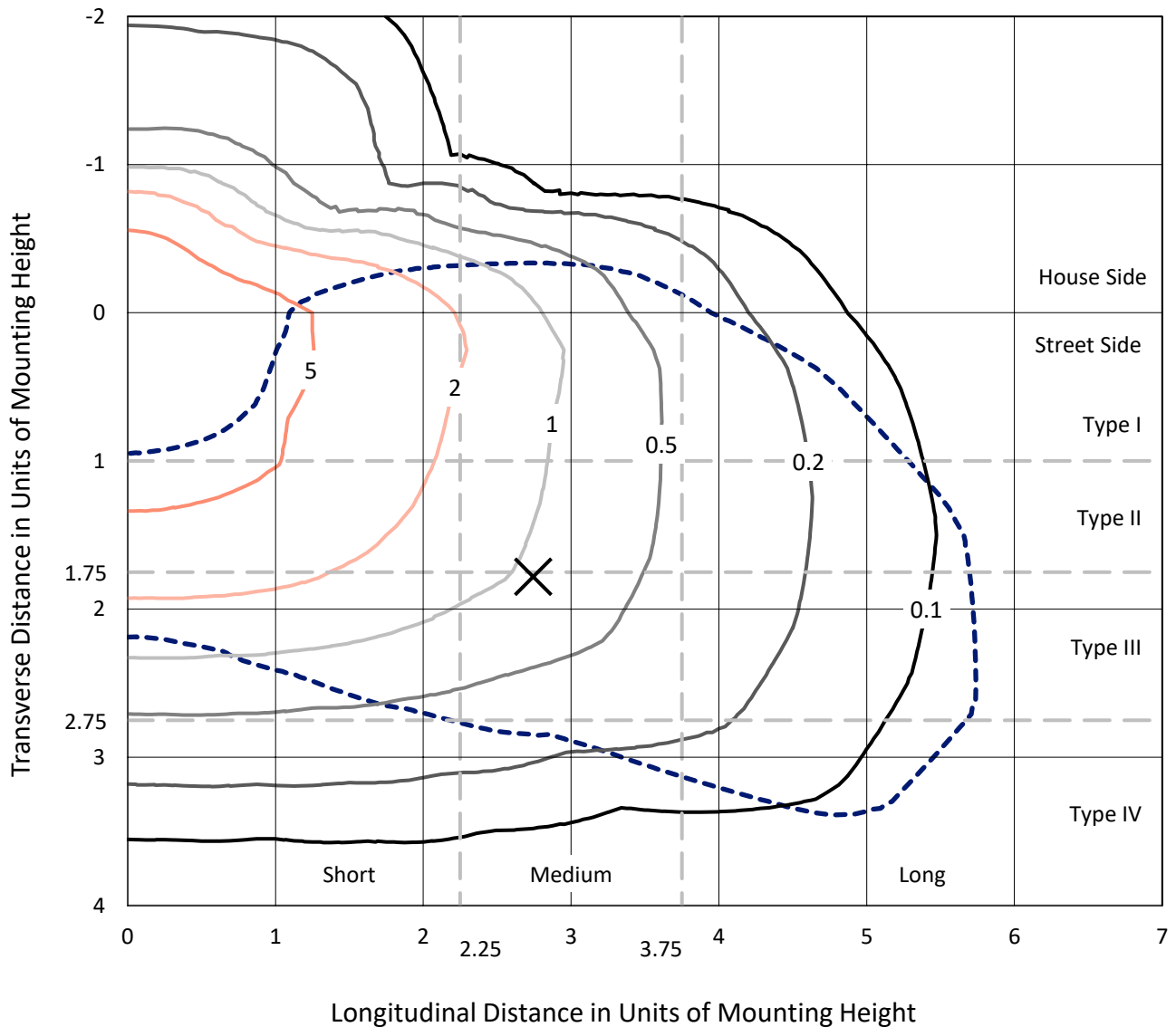
Input Watts (W): 93.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

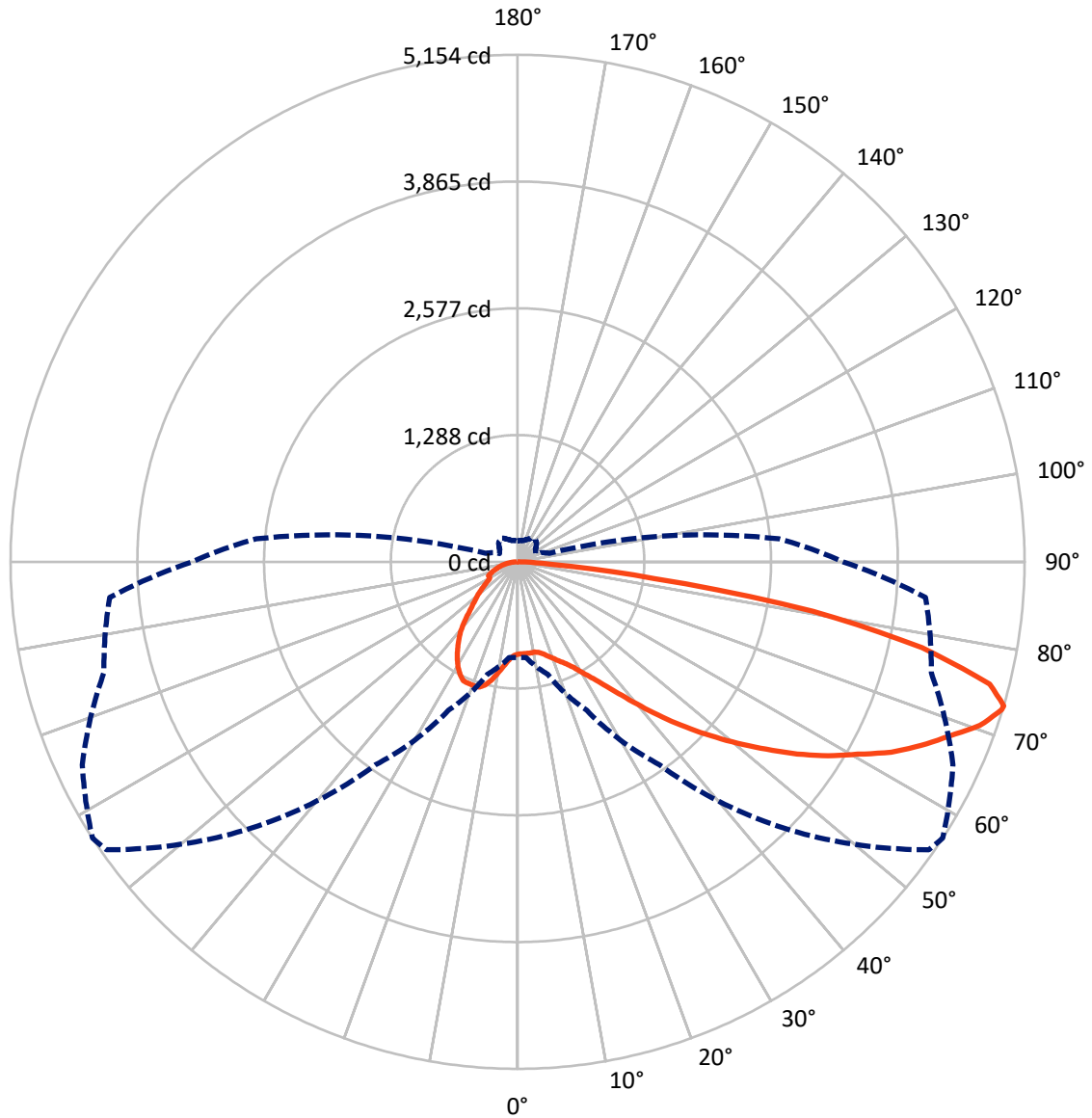
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 8 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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

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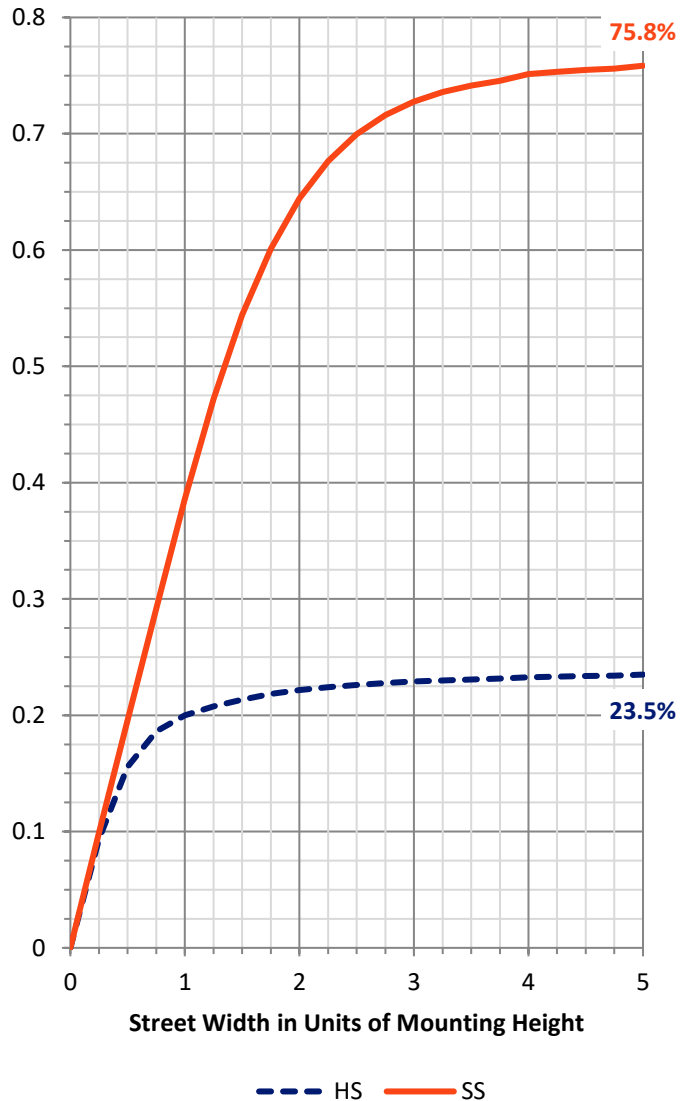
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2221.3	0.0	2221.3
	% Fixture	23.9	0.0	23.9
Street Side	Lumens	7089.7	0.0	7089.7
	% Fixture	76.1	0.0	76.1
Total	Lumens	9311.0	0.0	9311.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.6	1.0
10°-20°	308.0	3.3
20°-30°	568.6	6.1
30°-40°	878.1	9.4
40°-50°	1321.7	14.2
50°-60°	1934.4	20.8
60°-70°	2284.4	24.5
70°-80°	1635.5	17.6
80°-90°	286.6	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°	9311.0	100.0
0°-180°	9311.0	100.0

Coefficient of Utilization

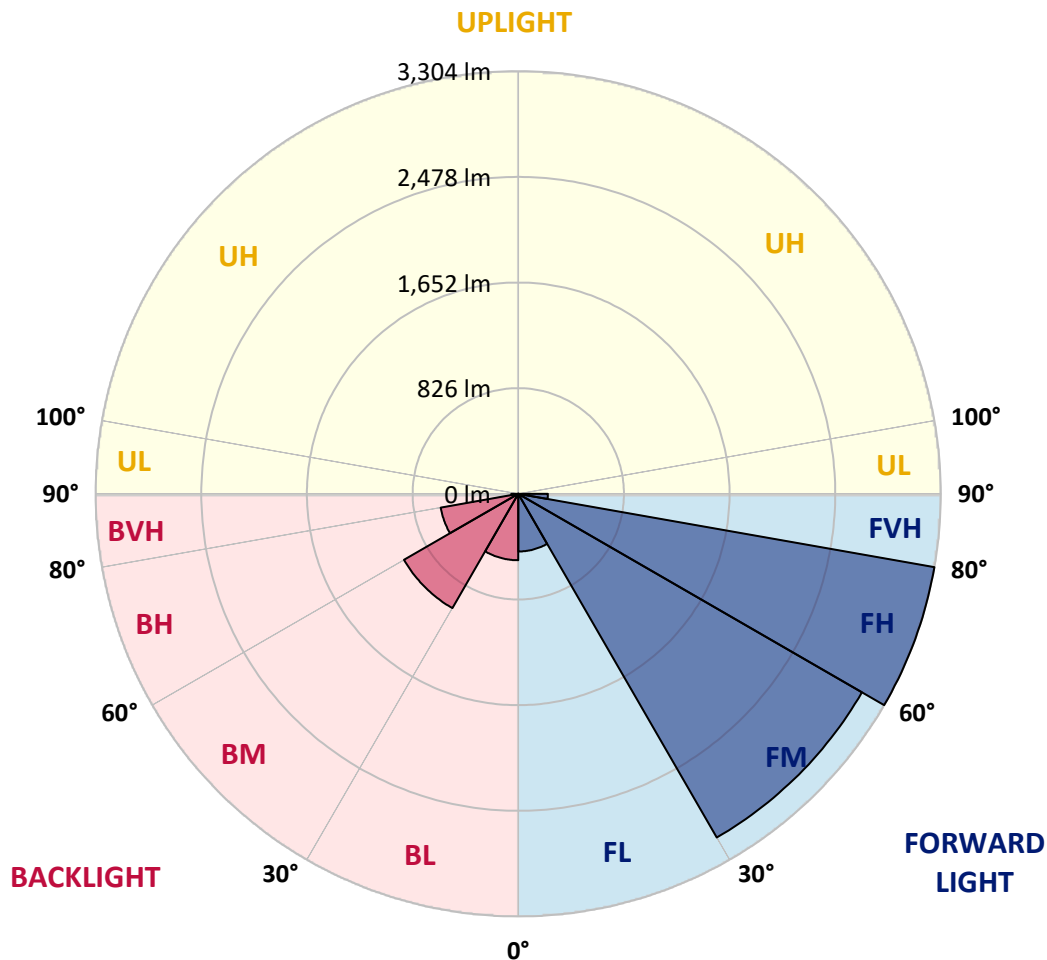


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	451.2	4.8			
FM (30°-60°)	3102.7	33.3			
FH (60°-80°)	3304.0	35.5			G2/5000
FVH (80°-90°)	231.8	2.5			G3/500
BL (0°-30°)	519.1	5.6	B2/1000		
BM (30°-60°)	1031.5	11.1	B2/2500		
BH (60°-80°)	615.9	6.6	B2/1000		G2/1000
BVH (80°-90°)	54.7	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-G3
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	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°	926.7	931.2	929.0	931.2	938.1	933.5	933.5	935.8	938.1	935.8	940.4
5°	887.9	890.2	894.7	903.9	919.8	924.4	935.8	935.8	940.4	944.9	951.8
7.5°	824.0	828.5	837.7	846.8	874.2	901.6	931.2	935.8	951.8	963.2	967.8
10°	812.6	817.1	819.4	833.1	860.5	887.9	924.4	933.5	963.2	981.5	1002.0
12.5°	801.1	805.7	812.6	830.8	865.0	894.7	933.5	942.7	979.2	1015.7	1040.8
15°	810.3	812.6	819.4	837.7	871.9	913.0	963.2	970.0	1011.1	1056.8	1095.6
17.5°	833.1	835.4	833.1	849.1	881.0	929.0	997.4	1008.8	1059.1	1104.7	1143.5
20°	885.6	887.9	878.7	878.7	901.6	949.5	1034.0	1049.9	1111.6	1161.8	1200.6
22.5°	999.7	995.1	972.3	942.7	942.7	981.5	1075.0	1097.9	1175.5	1216.5	1250.8
25°	1161.8	1161.8	1125.2	1070.5	1034.0	1029.4	1123.0	1148.1	1239.4	1289.6	1310.1
27.5°	1358.1	1360.3	1301.0	1228.0	1157.2	1123.0	1191.4	1216.5	1319.3	1371.8	1378.6
30°	1531.5	1533.8	1474.5	1406.0	1319.3	1243.9	1282.7	1310.1	1428.8	1469.9	1447.1
32.5°	1705.0	1707.3	1666.2	1572.6	1481.3	1387.7	1399.1	1415.1	1536.1	1574.9	1538.4
35°	1855.6	1862.5	1821.4	1750.6	1654.8	1570.3	1549.8	1552.1	1661.6	1686.7	1638.8
37.5°	2008.6	2008.6	1983.4	1917.3	1835.1	1741.5	1714.1	1721.0	1819.1	1844.2	1775.7
40°	2202.6	2211.7	2198.0	2115.8	2022.3	1944.6	1917.3	1926.4	2033.7	2020.0	1946.9
42.5°	2437.7	2458.2	2435.4	2346.4	2245.9	2159.2	2159.2	2159.2	2250.5	2252.8	2143.2
45°	2738.9	2738.9	2716.1	2638.5	2506.1	2419.4	2389.7	2396.6	2476.5	2485.6	2357.8
47.5°	2990.0	3012.8	2987.7	2930.7	2825.7	2743.5	2649.9	2638.5	2704.7	2704.7	2595.1
50°	3193.1	3234.2	3213.7	3238.8	3163.5	3122.4	2930.7	2898.7	2921.5	2944.4	2823.4
52.5°	3362.0	3394.0	3387.2	3460.2	3496.7	3519.5	3216.0	3165.8	3184.0	3181.7	3072.2
55°	3373.5	3384.9	3487.6	3651.9	3795.7	3903.0	3503.6	3448.8	3430.5	3421.4	3336.9
57.5°	3307.3	3314.1	3519.5	3713.5	4026.2	4149.5	3775.2	3720.4	3695.3	3663.3	3629.1
60°	3147.5	3181.7	3451.1	3750.1	4163.2	4341.2	4028.5	3971.5	3953.2	3884.7	3962.3
62.5°	2944.4	2960.3	3229.7	3674.7	4181.4	4423.4	4295.6	4261.3	4204.3	4106.1	4259.1
65°	2656.8	2654.5	2891.9	3453.3	4087.9	4464.5	4521.5	4503.3	4432.5	4263.6	4523.8
67.5°	2182.0	2234.5	2467.3	3060.8	3861.9	4505.6	4752.1	4729.2	4617.4	4405.1	4649.4
70°	1663.9	1695.9	1960.6	2471.9	3412.3	4393.7	4978.0	4984.9	4781.7	4434.8	4594.6
72.5°	1061.3	1116.1	1326.1	1800.9	2732.1	3978.3	5112.7	5144.6	4873.0	4393.7	4254.5
73°	972.3	976.9	1182.3	1666.2	2519.8	3830.0	5103.6	5153.8	4882.2	4352.6	4160.9
75°	579.7	604.8	728.1	1107.0	1798.6	3076.7	4857.1	4957.5	4834.2	4170.0	3647.4
77.5°	271.6	289.9	358.3	584.3	979.2	1851.1	4083.3	4202.0	4284.2	3649.6	2780.0
80°	143.8	146.1	175.7	294.4	525.0	762.3	2846.2	3042.5	3158.9	2748.1	1869.3
82.5°	121.0	121.0	136.9	189.4	335.5	296.7	1173.2	1396.9	1711.8	1353.5	734.9
85°	98.1	100.4	136.9	141.5	239.7	152.9	280.7	351.5	664.2	598.0	82.2
87.5°	32.0	36.5	77.6	100.4	127.8	59.3	70.8	77.6	77.6	114.1	27.4
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°	942.7	942.7	944.9	947.2	951.8	951.8	956.3	958.6	963.2	965.5	958.6
5°	951.8	956.3	960.9	974.6	990.6	1004.3	1018.0	1029.4	1040.8	1047.6	1045.4
7.5°	976.9	983.7	1002.0	1027.1	1059.1	1079.6	1100.1	1120.7	1129.8	1134.4	1134.4
10°	1011.1	1024.8	1059.1	1100.1	1136.7	1168.6	1184.6	1198.3	1202.9	1207.4	1202.9
12.5°	1059.1	1077.3	1129.8	1182.3	1223.4	1239.4	1237.1	1218.8	1193.7	1189.2	1184.6
15°	1120.7	1143.5	1202.9	1264.5	1296.4	1275.9	1223.4	1205.1	1200.6	1214.3	1209.7
17.5°	1173.2	1200.6	1273.6	1337.5	1330.7	1259.9	1243.9	1253.1	1248.5	1250.8	1250.8
20°	1223.4	1262.2	1339.8	1383.2	1323.8	1278.2	1264.5	1253.1	1239.4	1243.9	1239.4
22.5°	1287.3	1314.7	1403.7	1406.0	1314.7	1278.2	1248.5	1225.7	1221.1	1223.4	1225.7
25°	1337.5	1380.9	1458.5	1390.0	1314.7	1241.7	1200.6	1196.0	1198.3	1212.0	1207.4
27.5°	1406.0	1449.4	1501.9	1380.9	1259.9	1182.3	1166.3	1164.0	1148.1	1152.6	1152.6
30°	1469.9	1522.4	1524.7	1380.9	1191.4	1132.1	1109.3	1068.2	1034.0	1040.8	1038.5
32.5°	1556.6	1602.3	1529.2	1326.1	1113.8	1065.9	1004.3	940.4	924.4	933.5	935.8
35°	1657.1	1693.6	1533.8	1234.8	1036.2	972.3	860.5	824.0	821.7	828.5	835.4
37.5°	1789.4	1810.0	1568.0	1129.8	960.9	826.2	739.5	730.4	709.8	696.1	698.4
40°	1951.5	1926.4	1634.2	1036.2	871.9	693.9	657.3	632.2	593.4	554.6	561.5
42.5°	2131.8	2061.1	1654.8	960.9	750.9	611.7	577.5	538.7	490.7	449.6	447.4
45°	2325.8	2211.7	1636.5	901.6	630.0	550.1	513.6	467.9	410.8	376.6	376.6
47.5°	2556.3	2355.5	1579.5	853.6	545.5	495.3	449.6	404.0	365.2	333.2	333.2
50°	2809.7	2522.1	1538.4	769.2	486.2	442.8	397.1	360.6	331.0	305.8	305.8
52.5°	3076.7	2679.6	1504.1	645.9	433.7	394.9	362.9	333.2	308.1	276.2	271.6
55°	3348.4	2830.2	1520.1	527.2	385.7	360.6	340.1	310.4	301.3	294.4	289.9
57.5°	3631.4	2994.6	1558.9	431.4	344.7	342.4	333.2	353.8	374.3	360.6	353.8
60°	3852.8	3122.4	1563.5	362.9	319.5	360.6	406.3	413.1	358.3	326.4	324.1
62.5°	4028.5	3243.4	1456.2	315.0	326.4	424.5	433.7	365.2	310.4	296.7	296.7
65°	4119.8	3286.7	1170.9	287.6	340.1	406.3	392.6	328.7	289.9	287.6	287.6
67.5°	4074.2	3252.5	819.4	257.9	301.3	351.5	351.5	301.3	267.0	278.5	273.9
70°	3855.1	3083.6	540.9	232.8	264.8	317.3	326.4	280.7	248.8	255.6	248.8
72.5°	3398.6	2782.3	356.1	205.4	228.2	280.7	303.6	257.9	228.2	226.0	219.1
73°	3309.6	2668.2	335.5	200.9	221.4	271.6	296.7	253.4	223.7	216.8	212.3
75°	2807.4	2225.4	253.4	180.3	196.3	244.2	276.2	237.4	205.4	196.3	191.7
77.5°	2045.1	1542.9	189.4	152.9	164.3	212.3	244.2	216.8	182.6	171.2	168.9
80°	1275.9	839.9	141.5	123.3	130.1	178.0	214.6	194.0	157.5	143.8	141.5
82.5°	499.9	273.9	98.1	91.3	95.9	134.7	180.3	168.9	132.4	121.0	114.1
85°	82.2	93.6	63.9	61.6	61.6	95.9	136.9	130.1	89.0	77.6	68.5
87.5°	22.8	43.4	25.1	22.8	22.8	41.1	75.3	59.3	36.5	29.7	27.4
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)