

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: P595278

Luminaire Tested: **IST-PA1E-727-U-T4W**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595278
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/22/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: IST-PA1E-727-U-T4W
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 70 CRI, 2700K, 1050mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8491 lumens
Efficiency: N/A
Efficacy: 104.2 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

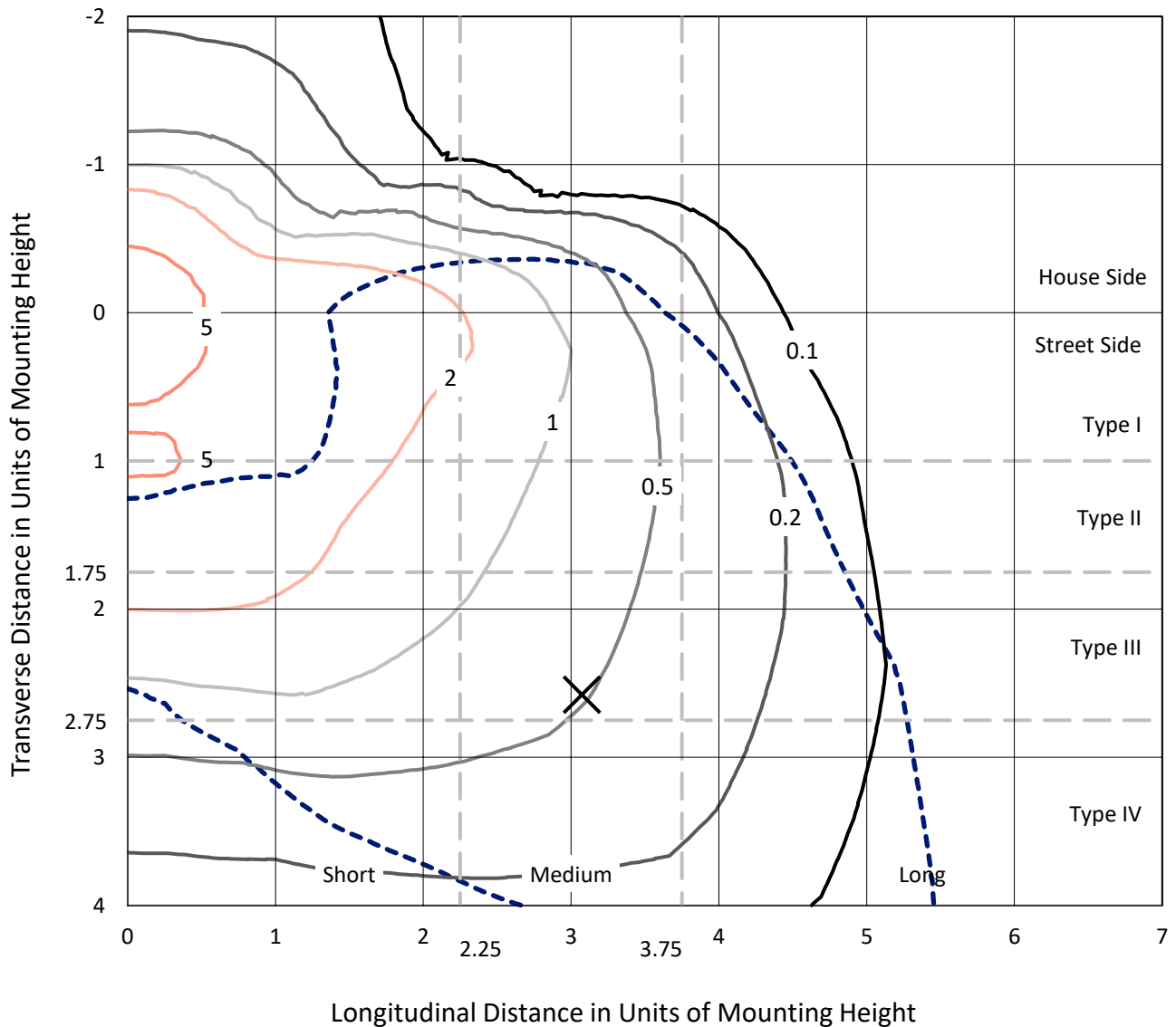
Input Watts (W): 81.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

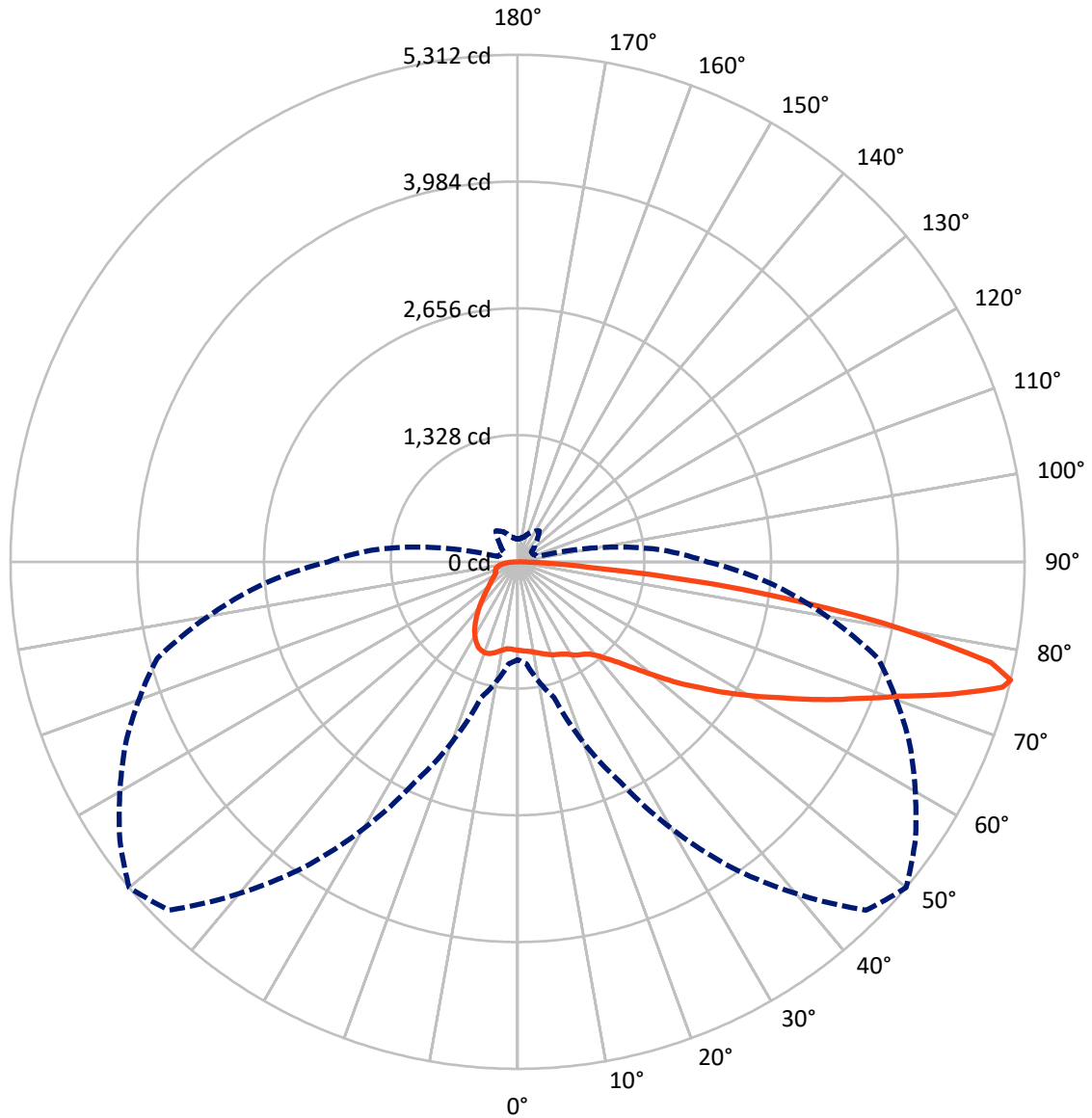
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 6.9 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 50-Deg Lateral - - - Horizontal Cone Through 76-Deg Vertical

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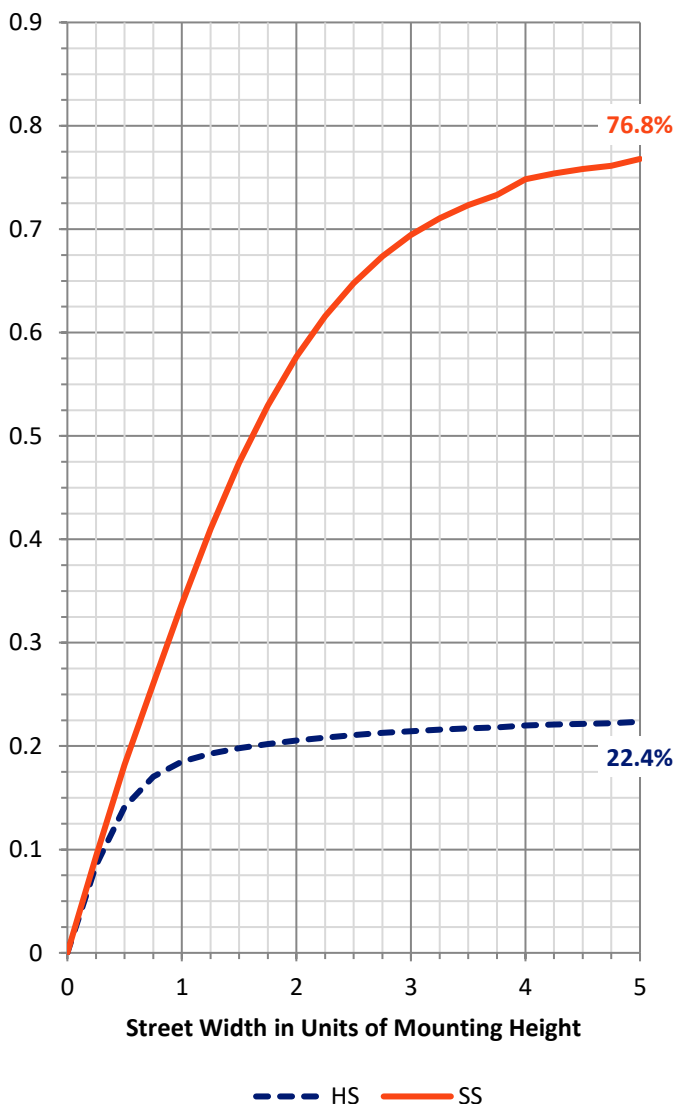
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1942.4	0.0	1942.4
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	6548.6	0.0	6548.6
	% Fixture	77.1	0.0	77.1
Total	Lumens	8491.0	0.0	8491.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.9	1.1
10°-20°	282.5	3.3
20°-30°	477.3	5.6
30°-40°	654.2	7.7
40°-50°	963.5	11.3
50°-60°	1515.7	17.9
60°-70°	2181.7	25.7
70°-80°	1983.8	23.4
80°-90°	342.5	4.0
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°	8491.0	100.0
0°-180°	8491.0	100.0

Coefficient of Utilization

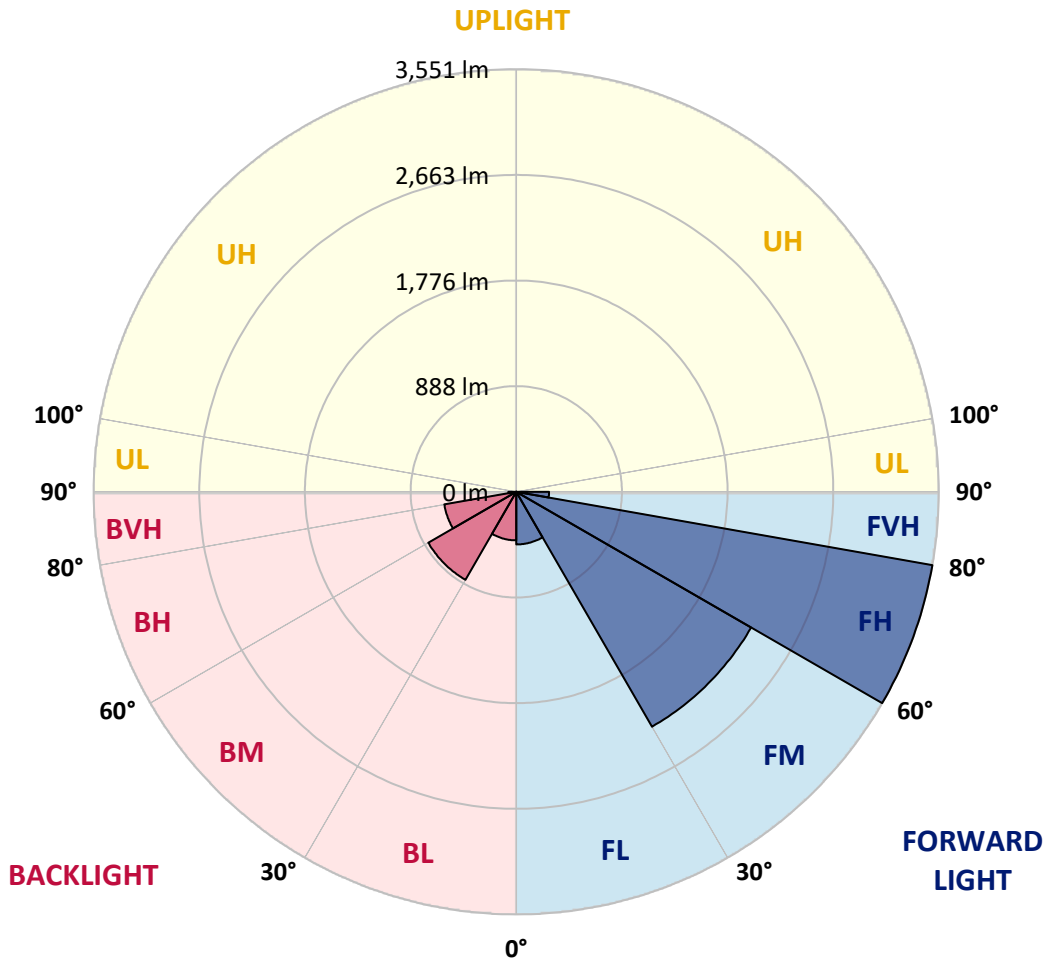


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	441.9	5.2			
FM (30°-60°)	2279.7	26.8			
FH (60°-80°)	3551.3	41.8			G2/5000
FVH (80°-90°)	275.7	3.2			G3/500
BL (0°-30°)	407.8	4.8	B1/500		
BM (30°-60°)	853.7	10.1	B1/1000		
BH (60°-80°)	614.1	7.2	B2/1000		G2/1000
BVH (80°-90°)	66.8	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-G3
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	925.5	925.5	925.5	925.5	925.5	925.5	925.5	925.5	925.5	925.5	925.5
2.5°	946.3	946.3	948.4	944.2	944.2	933.8	933.8	931.7	927.6	925.5	921.3
5°	981.7	981.7	975.4	965.0	958.8	946.3	940.1	935.9	927.6	917.2	906.8
7.5°	1019.1	1014.9	1010.8	994.1	981.7	958.8	948.4	942.1	925.5	910.9	904.7
10°	1058.6	1052.4	1042.0	1021.2	1002.5	975.4	962.9	954.6	935.9	923.4	908.9
12.5°	1081.5	1081.5	1069.0	1044.0	1019.1	985.8	979.6	969.2	950.5	933.8	919.3
15°	1104.4	1106.4	1094.0	1064.8	1035.7	1010.8	1000.4	994.1	973.3	948.4	929.7
17.5°	1127.2	1125.2	1112.7	1079.4	1048.2	1025.3	1019.1	1010.8	990.0	967.1	948.4
20°	1143.9	1139.7	1135.6	1094.0	1062.8	1048.2	1039.9	1033.6	1012.9	987.9	962.9
22.5°	1148.0	1152.2	1148.0	1098.1	1073.2	1056.5	1054.4	1048.2	1031.6	1008.7	983.7
25°	1150.1	1152.2	1158.4	1110.6	1087.7	1075.2	1071.1	1066.9	1054.4	1035.7	1002.5
27.5°	1160.5	1162.6	1162.6	1118.9	1106.4	1098.1	1094.0	1094.0	1087.7	1064.8	1031.6
30°	1162.6	1164.7	1168.8	1139.7	1135.6	1129.3	1131.4	1129.3	1118.9	1094.0	1056.5
32.5°	1177.2	1179.2	1189.6	1152.2	1156.4	1162.6	1164.7	1162.6	1141.8	1121.0	1089.8
35°	1225.0	1222.9	1231.2	1183.4	1179.2	1181.3	1187.6	1185.5	1177.2	1158.4	1137.6
37.5°	1378.9	1378.9	1356.0	1256.2	1225.0	1220.8	1225.0	1235.4	1237.5	1220.8	1204.2
40°	1649.3	1634.7	1622.2	1405.9	1306.1	1281.1	1293.6	1299.9	1316.5	1316.5	1316.5
42.5°	1928.0	1930.0	1925.9	1638.9	1451.7	1389.3	1391.4	1405.9	1441.3	1447.5	1466.2
45°	2175.4	2190.0	2221.2	1909.2	1665.9	1526.6	1512.0	1526.6	1576.5	1618.1	1665.9
47.5°	2368.9	2352.2	2420.9	2192.1	1911.3	1713.7	1676.3	1680.5	1749.1	1815.6	1890.5
50°	2535.2	2539.4	2570.6	2481.2	2221.2	1925.9	1876.0	1867.6	1965.4	2036.1	2163.0
52.5°	2722.4	2709.9	2755.7	2734.9	2522.8	2185.8	2106.8	2081.9	2187.9	2287.8	2425.0
55°	2811.9	2824.3	2917.9	2969.9	2807.7	2418.8	2331.4	2339.7	2452.1	2558.1	2749.5
57.5°	2969.9	2982.4	3090.5	3198.7	3061.4	2666.3	2589.3	2589.3	2716.2	2834.7	3130.1
60°	3186.2	3188.3	3298.5	3485.7	3284.0	2905.4	2855.5	2853.5	2990.7	3128.0	3579.3
62.5°	3281.9	3306.8	3471.1	3714.5	3575.1	3198.7	3140.5	3157.1	3279.8	3439.9	4080.5
65°	3152.9	3207.0	3550.2	3868.4	3835.1	3504.4	3481.5	3504.4	3579.3	3751.9	4610.9
67.5°	2726.6	2799.4	3404.6	3972.4	4043.1	3858.0	3824.7	3820.5	3868.4	4061.8	4945.7
70°	2506.1	2549.8	3019.8	4011.9	4209.5	4215.7	4215.7	4188.7	4182.4	4323.9	4976.9
72.5°	2063.1	2108.9	2547.7	3791.4	4367.5	4694.1	4741.9	4642.1	4488.2	4459.0	4454.9
75°	1470.4	1503.7	1882.2	2982.4	4165.8	5153.7	5249.4	5055.9	4627.5	4163.7	3248.6
76°	1025.3	1073.2	1470.4	2547.7	3912.1	5162.0	5311.7	5087.1	4533.9	3910.0	2676.7
77.5°	519.9	536.6	850.6	1711.7	3273.6	4924.9	5070.5	4818.8	4126.3	3159.2	1699.2
80°	197.6	203.8	303.6	623.9	1796.9	3824.7	3880.9	3541.9	2730.7	1349.8	611.5
82.5°	104.0	108.1	170.5	307.8	738.3	2102.7	2373.0	1975.8	1071.1	405.6	178.9
85°	52.0	56.2	99.8	187.2	366.0	657.2	761.2	719.6	355.6	153.9	66.6
87.5°	20.8	25.0	49.9	83.2	147.7	128.9	143.5	185.1	114.4	72.8	22.9
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°	925.5	925.5	925.5	925.5	925.5	925.5	925.5	925.5	925.5	925.5	925.5
2.5°	921.3	919.3	921.3	919.3	921.3	921.3	923.4	919.3	919.3	923.4	917.2
5°	906.8	904.7	906.8	910.9	913.0	917.2	925.5	923.4	927.6	931.7	933.8
7.5°	900.5	898.5	904.7	906.8	913.0	921.3	933.8	942.1	946.3	954.6	950.5
10°	906.8	906.8	915.1	921.3	931.7	942.1	952.5	960.9	971.3	977.5	975.4
12.5°	917.2	915.1	929.7	938.0	952.5	962.9	971.3	975.4	983.7	992.1	990.0
15°	927.6	929.7	950.5	967.1	983.7	987.9	990.0	985.8	990.0	994.1	994.1
17.5°	948.4	950.5	973.3	992.1	1006.6	1002.5	992.1	981.7	981.7	983.7	985.8
20°	965.0	969.2	996.2	1012.9	1021.2	1004.5	987.9	975.4	969.2	971.3	969.2
22.5°	983.7	992.1	1019.1	1027.4	1014.9	994.1	973.3	956.7	956.7	958.8	958.8
25°	1006.6	1010.8	1029.5	1025.3	1002.5	971.3	954.6	948.4	946.3	948.4	950.5
27.5°	1027.4	1029.5	1039.9	1010.8	967.1	933.8	927.6	929.7	931.7	933.8	935.9
30°	1054.4	1058.6	1048.2	990.0	923.4	886.0	886.0	898.5	902.6	908.9	906.8
32.5°	1087.7	1091.9	1060.7	962.9	867.3	829.8	831.9	850.6	863.1	867.3	869.3
35°	1143.9	1135.6	1069.0	925.5	807.0	761.2	763.3	786.2	802.8	809.0	804.9
37.5°	1212.5	1210.4	1081.5	877.7	732.1	690.5	692.6	703.0	719.6	721.7	723.8
40°	1326.9	1310.3	1102.3	815.3	657.2	617.7	613.5	619.8	617.7	621.9	623.9
42.5°	1491.2	1447.5	1129.3	744.6	590.7	549.1	544.9	534.5	522.0	509.5	503.3
45°	1684.6	1616.0	1162.6	671.8	522.0	484.6	474.2	461.7	436.8	409.7	401.4
47.5°	1934.2	1803.2	1200.0	599.0	457.6	428.4	420.1	401.4	372.3	341.1	334.8
50°	2190.0	2023.6	1237.5	538.7	405.6	388.9	380.6	361.9	324.4	295.3	289.1
52.5°	2487.4	2242.0	1277.0	484.6	359.8	359.8	353.6	324.4	289.1	262.1	257.9
55°	2830.6	2466.6	1339.4	432.6	326.5	334.8	326.5	297.4	264.1	245.4	243.3
57.5°	3240.3	2751.5	1418.4	376.4	297.4	303.6	303.6	282.8	260.0	247.5	245.4
60°	3652.1	3040.6	1468.3	334.8	274.5	280.8	293.2	282.8	268.3	262.1	260.0
62.5°	4047.2	3336.0	1383.1	299.5	251.7	270.4	301.6	303.6	289.1	291.2	291.2
65°	4342.6	3560.6	1118.9	268.3	237.1	276.6	326.5	328.6	303.6	297.4	295.3
67.5°	4444.5	3623.0	752.9	247.5	228.8	280.8	355.6	347.3	303.6	291.2	284.9
70°	4251.1	3394.2	488.7	228.8	216.3	276.6	378.5	357.7	301.6	282.8	274.5
72.5°	3564.7	2895.0	326.5	212.1	203.8	272.5	393.1	357.7	295.3	268.3	260.0
75°	2474.9	1977.9	243.3	191.3	185.1	266.2	397.2	351.5	280.8	251.7	245.4
76°	1986.2	1482.9	220.5	183.0	176.8	262.1	395.2	345.2	270.4	243.3	237.1
77.5°	1254.1	852.7	185.1	168.5	164.3	253.7	386.8	330.7	255.8	228.8	222.5
80°	438.8	312.0	141.4	137.3	139.3	235.0	364.0	301.6	226.7	201.7	193.4
82.5°	174.7	143.5	106.1	106.1	110.2	201.7	328.6	266.2	197.6	166.4	153.9
85°	68.6	62.4	74.9	74.9	79.0	164.3	274.5	208.0	135.2	104.0	99.8
87.5°	20.8	29.1	33.3	35.4	37.4	83.2	156.0	91.5	60.3	43.7	35.4
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)