

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: P595287

Luminaire Tested: **IST-PA1E-730-U-T4W**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595287
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-730-U-T4W
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 70 CRI, 3000K, 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: 9246 lumens
Efficiency: N/A
Efficacy: 113.4 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

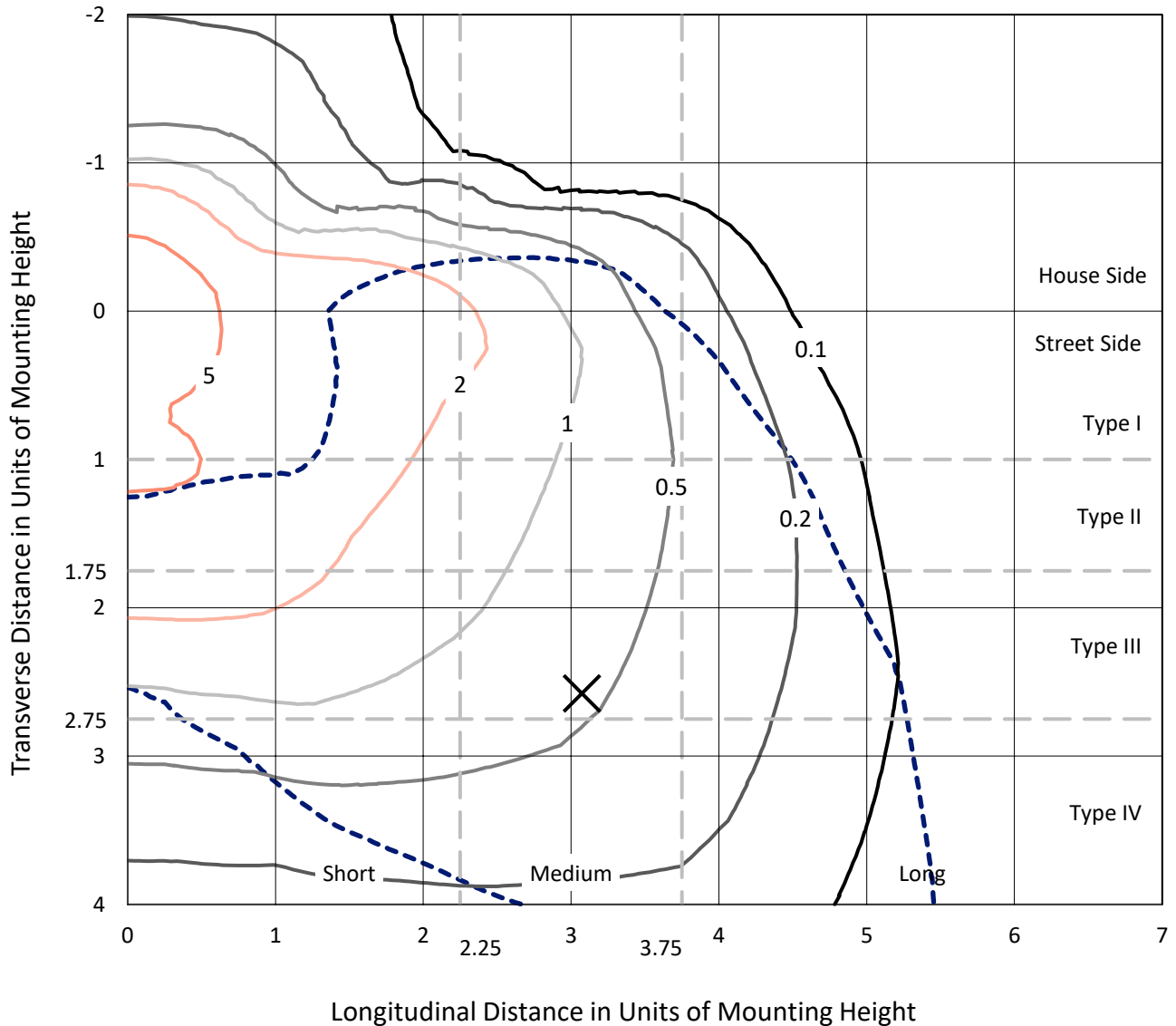
Input Watts (W): 81.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

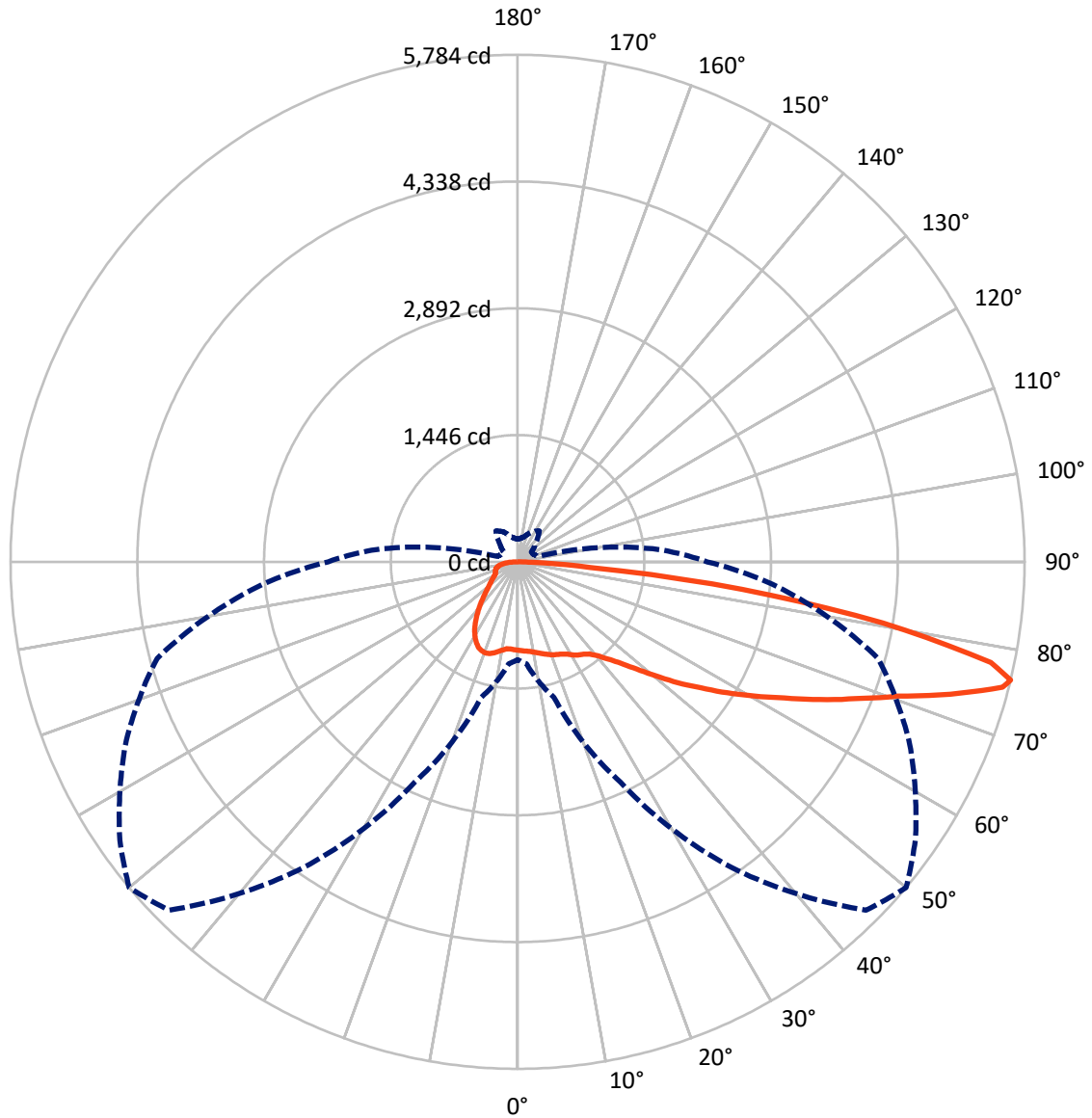
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 7.6 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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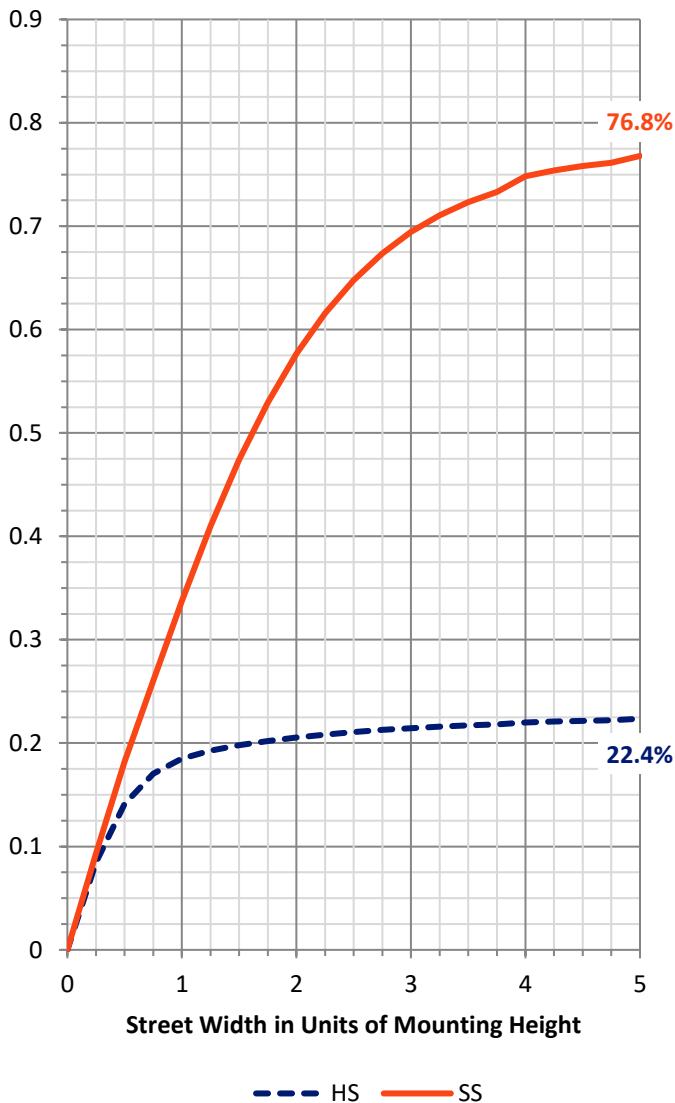
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2115.1	0.0	2115.1
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	7130.9	0.0	7130.9
	% Fixture	77.1	0.0	77.1
Total	Lumens	9246.0	0.0	9246.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.9	1.1
10°-20°	307.7	3.3
20°-30°	519.7	5.6
30°-40°	712.4	7.7
40°-50°	1049.2	11.3
50°-60°	1650.4	17.9
60°-70°	2375.7	25.7
70°-80°	2160.2	23.4
80°-90°	372.9	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°	9246.0	100.0
0°-180°	9246.0	100.0

Coefficient of Utilization

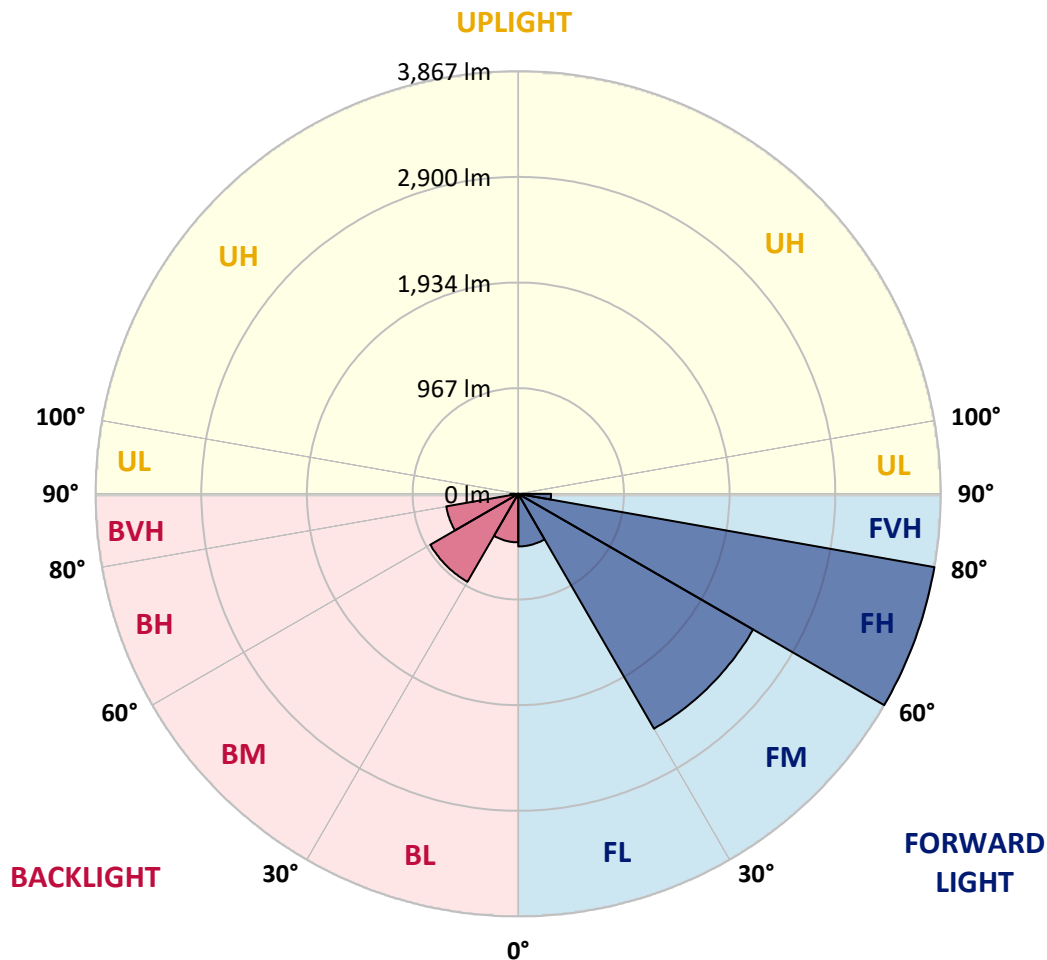


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	481.2	5.2			
FM (30°-60°)	2482.4	26.8			
FH (60°-80°)	3867.1	41.8			G2/5000
FVH (80°-90°)	300.2	3.2			G3/500
BL (0°-30°)	444.0	4.8	B1/500		
BM (30°-60°)	929.6	10.1	B1/1000		
BH (60°-80°)	668.7	7.2	B2/1000		G2/1000
BVH (80°-90°)	72.7	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°	1007.8	1007.8	1007.8	1007.8	1007.8	1007.8	1007.8	1007.8	1007.8	1007.8	1007.8
2.5°	1030.4	1030.4	1032.7	1028.2	1028.2	1016.9	1016.9	1014.6	1010.1	1007.8	1003.3
5°	1068.9	1068.9	1062.1	1050.8	1044.0	1030.4	1023.6	1019.1	1010.1	998.7	987.4
7.5°	1109.7	1105.2	1100.6	1082.5	1068.9	1044.0	1032.7	1025.9	1007.8	991.9	985.1
10°	1152.7	1145.9	1134.6	1112.0	1091.6	1062.1	1048.6	1039.5	1019.1	1005.5	989.7
12.5°	1177.6	1177.6	1164.1	1136.9	1109.7	1073.5	1066.7	1055.4	1035.0	1016.9	1001.0
15°	1202.6	1204.8	1191.2	1159.5	1127.8	1100.6	1089.3	1082.5	1059.9	1032.7	1012.3
17.5°	1227.5	1225.2	1211.6	1175.4	1141.4	1116.5	1109.7	1100.6	1078.0	1053.1	1032.7
20°	1245.6	1241.1	1236.5	1191.2	1157.3	1141.4	1132.4	1125.6	1102.9	1075.7	1048.6
22.5°	1250.1	1254.6	1250.1	1195.8	1168.6	1150.5	1148.2	1141.4	1123.3	1098.4	1071.2
25°	1252.4	1254.6	1261.4	1209.4	1184.4	1170.9	1166.3	1161.8	1148.2	1127.8	1091.6
27.5°	1263.7	1266.0	1266.0	1218.4	1204.8	1195.8	1191.2	1191.2	1184.4	1159.5	1123.3
30°	1266.0	1268.2	1272.8	1241.1	1236.5	1229.7	1232.0	1229.7	1218.4	1191.2	1150.5
32.5°	1281.8	1284.1	1295.4	1254.6	1259.2	1266.0	1268.2	1266.0	1243.3	1220.7	1186.7
35°	1333.9	1331.6	1340.7	1288.6	1284.1	1286.4	1293.1	1290.9	1281.8	1261.4	1238.8
37.5°	1501.5	1501.5	1476.6	1367.9	1333.9	1329.4	1333.9	1345.2	1347.5	1329.4	1311.3
40°	1795.9	1780.1	1766.5	1530.9	1422.2	1395.1	1408.6	1415.4	1433.6	1433.6	1433.6
42.5°	2099.4	2101.6	2097.1	1784.6	1580.8	1512.8	1515.1	1530.9	1569.4	1576.2	1596.6
45°	2368.9	2384.7	2418.7	2079.0	1814.0	1662.3	1646.4	1662.3	1716.6	1761.9	1814.0
47.5°	2579.5	2561.4	2636.1	2387.0	2081.3	1866.1	1825.4	1829.9	1904.6	1977.1	2058.6
50°	2760.7	2765.2	2799.2	2701.8	2418.7	2097.1	2042.8	2033.7	2140.1	2217.1	2355.3
52.5°	2964.5	2950.9	3000.7	2978.1	2747.1	2380.2	2294.1	2267.0	2382.5	2491.2	2640.6
55°	3061.9	3075.5	3177.4	3234.0	3057.3	2633.8	2538.7	2547.8	2670.1	2785.6	2993.9
57.5°	3234.0	3247.6	3365.3	3483.1	3333.6	2903.3	2819.6	2819.6	2957.7	3086.8	3408.4
60°	3469.5	3471.8	3591.8	3795.6	3576.0	3163.8	3109.4	3107.2	3256.6	3406.1	3897.6
62.5°	3573.7	3600.9	3779.8	4044.8	3893.0	3483.1	3419.7	3437.8	3571.4	3745.8	4443.3
65°	3433.3	3492.2	3865.8	4212.3	4176.1	3816.0	3791.1	3816.0	3897.6	4085.5	5020.8
67.5°	2969.0	3048.3	3707.3	4325.6	4402.6	4201.0	4164.8	4160.3	4212.3	4423.0	5385.5
70°	2729.0	2776.5	3288.3	4368.6	4583.8	4590.6	4590.6	4561.1	4554.3	4708.3	5419.4
72.5°	2246.6	2296.4	2774.3	4128.6	4755.9	5111.4	5163.5	5054.8	4887.2	4855.5	4851.0
75°	1601.1	1637.4	2049.6	3247.6	4536.2	5611.9	5716.1	5505.5	5039.0	4533.9	3537.5
76°	1116.5	1168.6	1601.1	2774.3	4259.9	5621.0	5784.1	5539.5	4937.1	4257.6	2914.7
77.5°	566.2	584.3	926.3	1863.9	3564.6	5362.8	5521.3	5247.3	4493.2	3440.1	1850.3
80°	215.1	221.9	330.6	679.4	1956.7	4164.8	4225.9	3856.8	2973.6	1469.8	665.8
82.5°	113.2	117.8	185.7	335.2	804.0	2289.6	2584.0	2151.5	1166.3	441.6	194.8
85°	56.6	61.1	108.7	203.8	398.6	715.6	828.9	783.6	387.3	167.6	72.5
87.5°	22.6	27.2	54.4	90.6	160.8	140.4	156.3	201.6	124.6	79.3	24.9
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°	1007.8	1007.8	1007.8	1007.8	1007.8	1007.8	1007.8	1007.8	1007.8	1007.8	1007.8
2.5°	1003.3	1001.0	1003.3	1001.0	1003.3	1003.3	1005.5	1001.0	1001.0	1005.5	998.7
5°	987.4	985.1	987.4	991.9	994.2	998.7	1007.8	1005.5	1010.1	1014.6	1016.9
7.5°	980.6	978.4	985.1	987.4	994.2	1003.3	1016.9	1025.9	1030.4	1039.5	1035.0
10°	987.4	987.4	996.5	1003.3	1014.6	1025.9	1037.2	1046.3	1057.6	1064.4	1062.1
12.5°	998.7	996.5	1012.3	1021.4	1037.2	1048.6	1057.6	1062.1	1071.2	1080.3	1078.0
15°	1010.1	1012.3	1035.0	1053.1	1071.2	1075.7	1078.0	1073.5	1078.0	1082.5	1082.5
17.5°	1032.7	1035.0	1059.9	1080.3	1096.1	1091.6	1080.3	1068.9	1068.9	1071.2	1073.5
20°	1050.8	1055.4	1084.8	1102.9	1112.0	1093.9	1075.7	1062.1	1055.4	1057.6	1055.4
22.5°	1071.2	1080.3	1109.7	1118.8	1105.2	1082.5	1059.9	1041.8	1041.8	1044.0	1044.0
25°	1096.1	1100.6	1121.0	1116.5	1091.6	1057.6	1039.5	1032.7	1030.4	1032.7	1035.0
27.5°	1118.8	1121.0	1132.4	1100.6	1053.1	1016.9	1010.1	1012.3	1014.6	1016.9	1019.1
30°	1148.2	1152.7	1141.4	1078.0	1005.5	964.8	964.8	978.4	982.9	989.7	987.4
32.5°	1184.4	1189.0	1155.0	1048.6	944.4	903.6	905.9	926.3	939.9	944.4	946.6
35°	1245.6	1236.5	1164.1	1007.8	878.7	828.9	831.1	856.1	874.2	881.0	876.4
37.5°	1320.3	1318.1	1177.6	955.7	797.2	751.9	754.1	765.5	783.6	785.9	788.1
40°	1444.9	1426.8	1200.3	887.8	715.6	672.6	668.1	674.9	672.6	677.1	679.4
42.5°	1623.8	1576.2	1229.7	810.8	643.2	597.9	593.4	582.0	568.4	554.9	548.1
45°	1834.4	1759.7	1266.0	731.5	568.4	527.7	516.4	502.8	475.6	446.1	437.1
47.5°	2106.2	1963.5	1306.7	652.2	498.2	466.5	457.5	437.1	405.4	371.4	364.6
50°	2384.7	2203.6	1347.5	586.6	441.6	423.5	414.4	394.1	353.3	321.6	314.8
52.5°	2708.6	2441.4	1390.5	527.7	391.8	391.8	385.0	353.3	314.8	285.4	280.8
55°	3082.3	2685.9	1458.5	471.1	355.6	364.6	355.6	323.9	287.6	267.2	265.0
57.5°	3528.4	2996.2	1544.5	409.9	323.9	330.6	330.6	308.0	283.1	269.5	267.2
60°	3976.8	3311.0	1598.9	364.6	298.9	305.7	319.3	308.0	292.1	285.4	283.1
62.5°	4407.1	3632.6	1506.0	326.1	274.0	294.4	328.4	330.6	314.8	317.1	317.1
65°	4728.7	3877.2	1218.4	292.1	258.2	301.2	355.6	357.8	330.6	323.9	321.6
67.5°	4839.7	3945.1	819.8	269.5	249.1	305.7	387.3	378.2	330.6	317.1	310.3
70°	4629.1	3696.0	532.2	249.1	235.5	301.2	412.2	389.5	328.4	308.0	298.9
72.5°	3881.7	3152.5	355.6	231.0	221.9	296.7	428.0	389.5	321.6	292.1	283.1
75°	2695.0	2153.7	265.0	208.4	201.6	289.9	432.6	382.7	305.7	274.0	267.2
76°	2162.8	1614.7	240.1	199.3	192.5	285.4	430.3	375.9	294.4	265.0	258.2
77.5°	1365.6	928.5	201.6	183.4	178.9	276.3	421.2	360.1	278.6	249.1	242.3
80°	477.9	339.7	154.0	149.5	151.7	255.9	396.3	328.4	246.9	219.7	210.6
82.5°	190.2	156.3	115.5	115.5	120.0	219.7	357.8	289.9	215.1	181.2	167.6
85°	74.7	67.9	81.5	81.5	86.1	178.9	298.9	226.5	147.2	113.2	108.7
87.5°	22.6	31.7	36.2	38.5	40.8	90.6	169.9	99.6	65.7	47.6	38.5
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)