

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: P595224

Luminaire Tested: **IST-PA1D-740-U-T4W**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595224
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-PA1D-740-U-T4W
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 70 CRI, 4000K, 800mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8243 lumens
Efficiency: N/A
Efficacy: 132.1 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

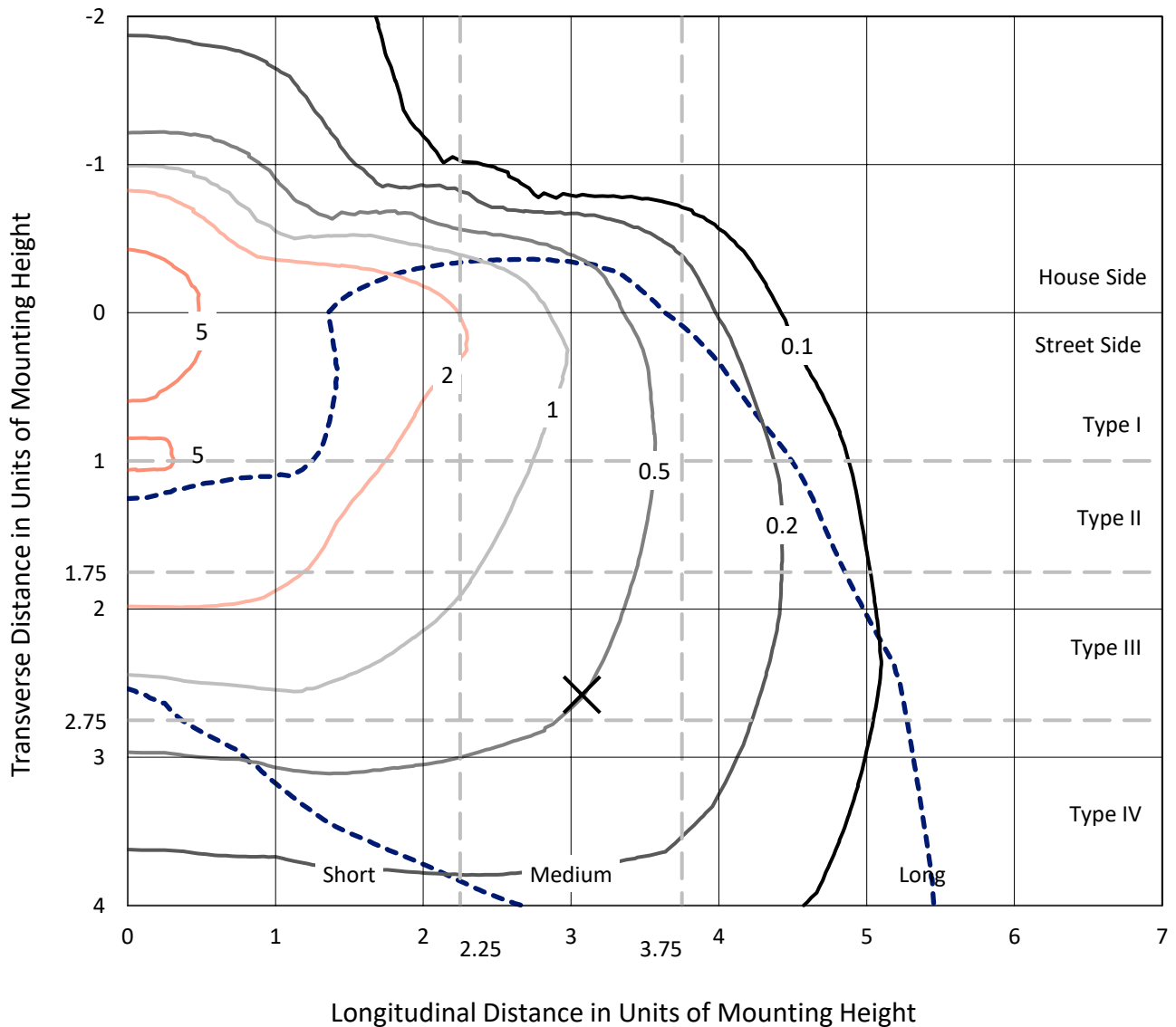
Input Watts (W): 62.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

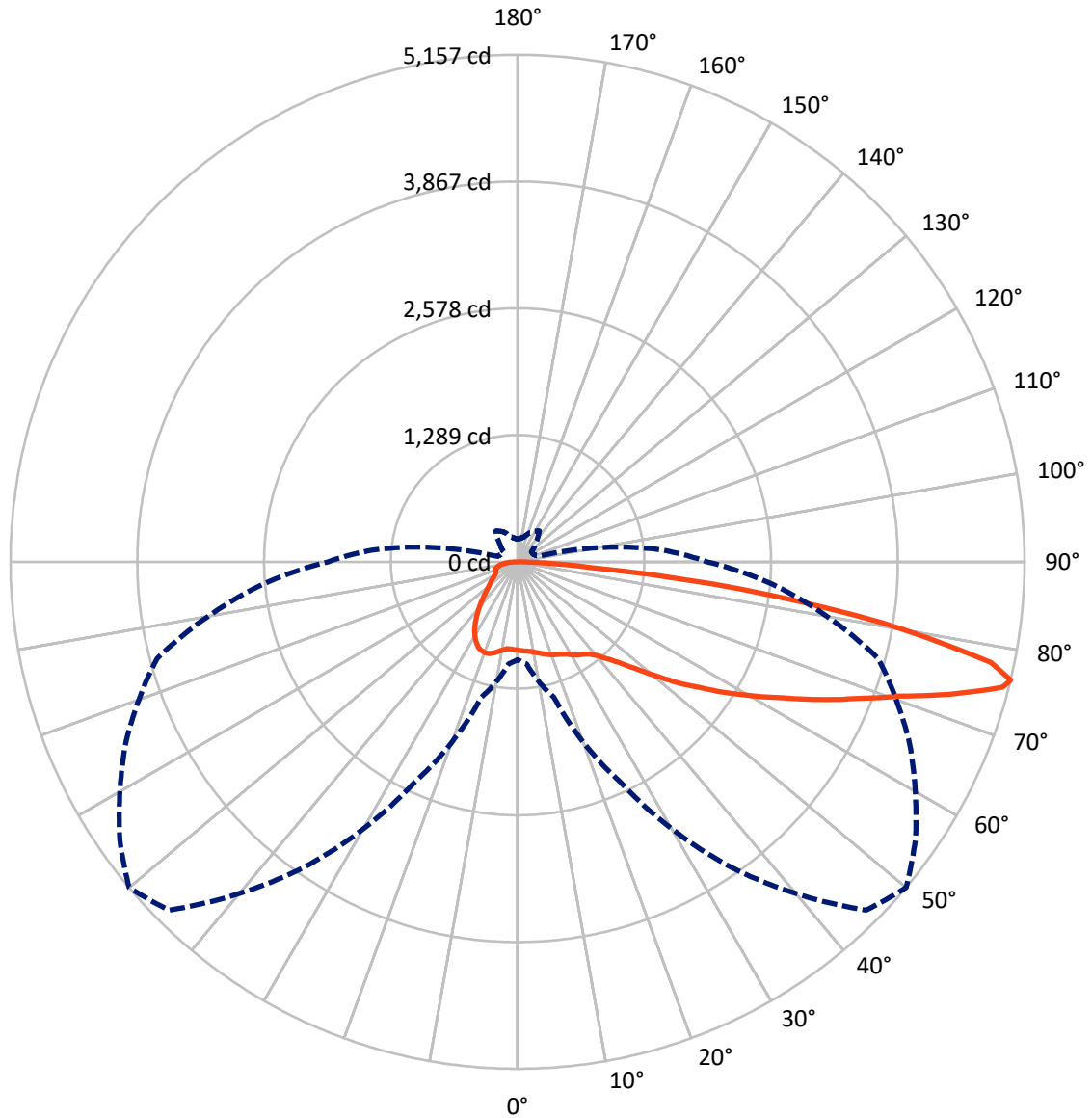
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 6.7 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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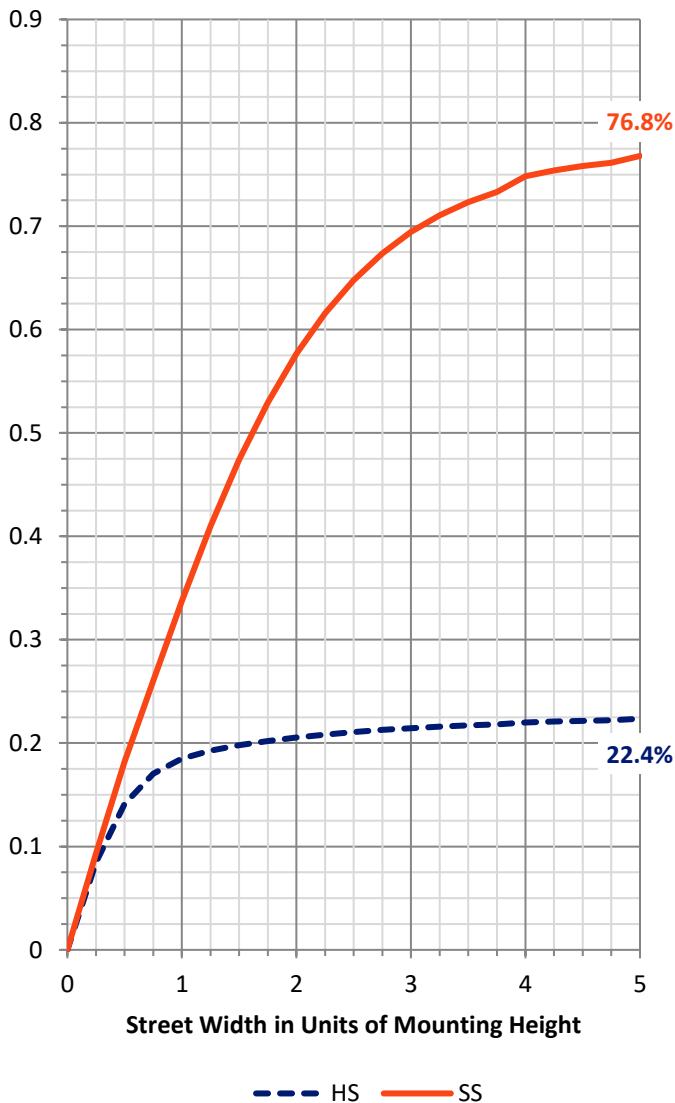
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1885.7	0.0	1885.7
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	6357.3	0.0	6357.3
	% Fixture	77.1	0.0	77.1
Total	Lumens	8243.0	0.0	8243.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.2	1.1
10°-20°	274.3	3.3
20°-30°	463.3	5.6
30°-40°	635.1	7.7
40°-50°	935.4	11.3
50°-60°	1471.4	17.9
60°-70°	2118.0	25.7
70°-80°	1925.8	23.4
80°-90°	332.5	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°	8243.0	100.0
0°-180°	8243.0	100.0

Coefficient of Utilization

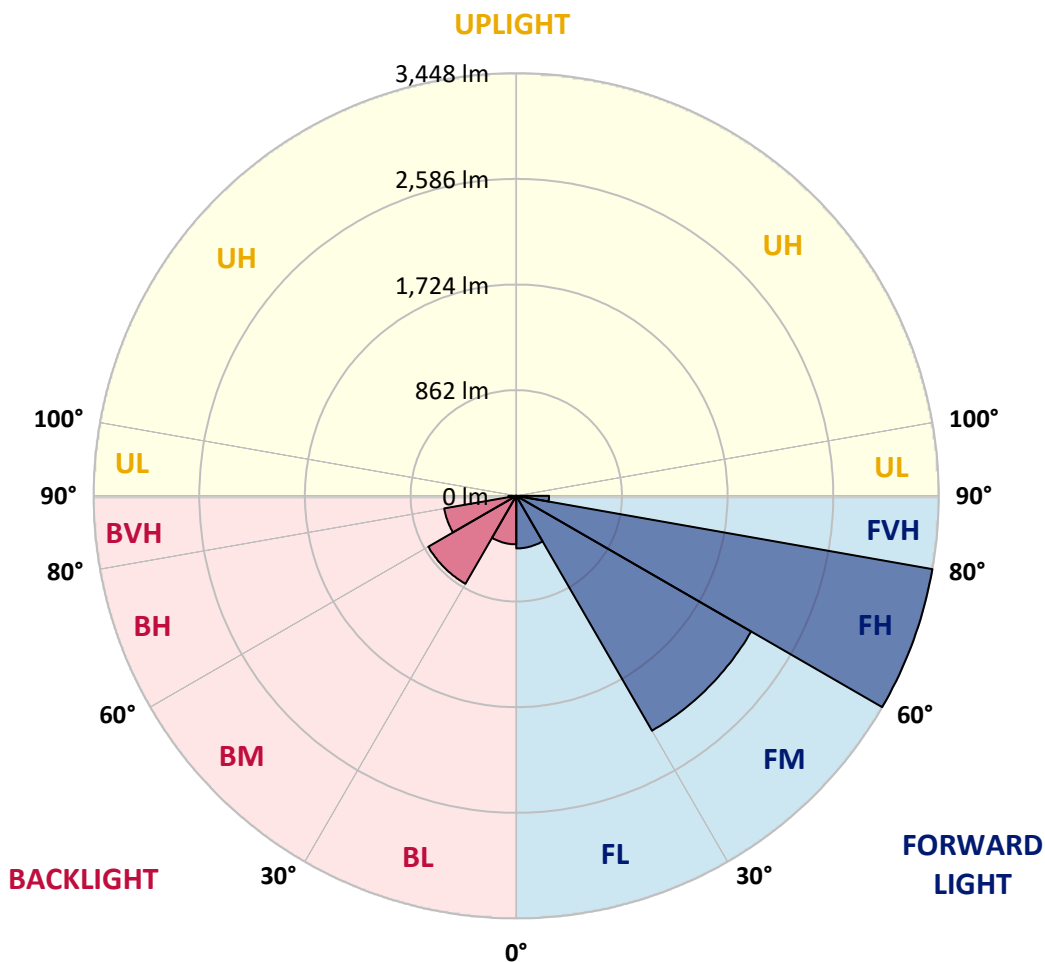


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	429.0	5.2			
FM (30°-60°)	2213.1	26.8			
FH (60°-80°)	3447.6	41.8			G2/5000
FVH (80°-90°)	267.6	3.2			G3/500
BL (0°-30°)	395.9	4.8	B1/500		
BM (30°-60°)	828.8	10.1	B1/1000		
BH (60°-80°)	596.2	7.2	B2/1000		G2/1000
BVH (80°-90°)	64.9	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°	898.5	898.5	898.5	898.5	898.5	898.5	898.5	898.5	898.5	898.5	898.5
2.5°	918.7	918.7	920.7	916.6	916.6	906.5	906.5	904.5	900.5	898.5	894.4
5°	953.0	953.0	946.9	936.8	930.8	918.7	912.6	908.6	900.5	890.4	880.3
7.5°	989.3	985.3	981.2	965.1	953.0	930.8	920.7	914.6	898.5	884.3	878.3
10°	1027.7	1021.6	1011.5	991.3	973.2	946.9	934.8	926.7	908.6	896.4	882.3
12.5°	1049.9	1049.9	1037.8	1013.6	989.3	957.0	951.0	940.9	922.7	906.5	892.4
15°	1072.1	1074.1	1062.0	1033.7	1005.5	981.2	971.2	965.1	944.9	920.7	902.5
17.5°	1094.3	1092.3	1080.2	1047.9	1017.6	995.4	989.3	981.2	961.1	938.8	920.7
20°	1110.5	1106.4	1102.4	1062.0	1031.7	1017.6	1009.5	1003.5	983.3	959.0	934.8
22.5°	1114.5	1118.5	1114.5	1066.0	1041.8	1025.7	1023.6	1017.6	1001.4	979.2	955.0
25°	1116.5	1118.5	1124.6	1078.2	1056.0	1043.8	1039.8	1035.8	1023.6	1005.5	973.2
27.5°	1126.6	1128.6	1128.6	1086.2	1074.1	1066.0	1062.0	1062.0	1056.0	1033.7	1001.4
30°	1128.6	1130.7	1134.7	1106.4	1102.4	1096.3	1098.4	1096.3	1086.2	1062.0	1025.7
32.5°	1142.8	1144.8	1154.9	1118.5	1122.6	1128.6	1130.7	1128.6	1108.4	1088.3	1058.0
35°	1189.2	1187.2	1195.3	1148.8	1144.8	1146.8	1152.9	1150.8	1142.8	1124.6	1104.4
37.5°	1338.6	1338.6	1316.4	1219.5	1189.2	1185.2	1189.2	1199.3	1201.3	1185.2	1169.0
40°	1601.1	1587.0	1574.8	1364.9	1268.0	1243.7	1255.8	1261.9	1278.0	1278.0	1278.0
42.5°	1871.6	1873.7	1869.6	1591.0	1409.3	1348.7	1350.7	1364.9	1399.2	1405.2	1423.4
45°	2111.9	2126.0	2156.3	1853.5	1617.2	1482.0	1467.8	1482.0	1530.4	1570.8	1617.2
47.5°	2299.7	2283.5	2350.2	2128.1	1855.5	1663.7	1627.3	1631.4	1698.0	1762.6	1835.3
50°	2461.2	2465.2	2495.5	2408.7	2156.3	1869.6	1821.2	1813.1	1908.0	1976.6	2099.8
52.5°	2642.9	2630.8	2675.2	2655.0	2449.1	2122.0	2045.3	2021.0	2124.0	2220.9	2354.2
55°	2729.7	2741.8	2832.7	2883.2	2725.7	2348.1	2263.3	2271.4	2380.4	2483.4	2669.2
57.5°	2883.2	2895.3	3000.3	3105.3	2972.0	2588.4	2513.7	2513.7	2636.9	2751.9	3038.6
60°	3093.2	3095.2	3202.2	3383.9	3188.0	2820.6	2772.1	2770.1	2903.4	3036.6	3474.8
62.5°	3186.0	3210.3	3369.8	3606.0	3470.7	3105.3	3048.7	3064.9	3184.0	3339.5	3961.3
65°	3060.8	3113.3	3446.5	3755.4	3723.1	3402.1	3379.9	3402.1	3474.8	3642.3	4476.2
67.5°	2646.9	2717.6	3305.2	3856.3	3925.0	3745.3	3713.0	3709.0	3755.4	3943.2	4801.3
70°	2432.9	2475.3	2931.6	3894.7	4086.5	4092.6	4092.6	4066.3	4060.3	4197.6	4831.5
72.5°	2002.9	2047.3	2473.3	3680.7	4240.0	4557.0	4603.4	4506.5	4357.1	4328.8	4324.8
75°	1427.5	1459.8	1827.2	2895.3	4044.1	5003.2	5096.0	4908.3	4492.3	4042.1	3153.7
76°	995.4	1041.8	1427.5	2473.3	3797.8	5011.2	5156.6	4938.5	4401.5	3795.8	2598.5
77.5°	504.8	520.9	825.8	1661.7	3178.0	4781.1	4922.4	4678.1	4005.8	3066.9	1649.5
80°	191.8	197.9	294.8	605.7	1744.4	3713.0	3767.5	3438.4	2651.0	1310.4	593.6
82.5°	101.0	105.0	165.6	298.8	716.8	2041.2	2303.7	1918.1	1039.8	393.7	173.6
85°	50.5	54.5	96.9	181.7	355.3	638.0	739.0	698.6	345.3	149.4	64.6
87.5°	20.2	24.2	48.5	80.8	143.4	125.2	139.3	179.7	111.0	70.7	22.2
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°	898.5	898.5	898.5	898.5	898.5	898.5	898.5	898.5	898.5	898.5	898.5
2.5°	894.4	892.4	894.4	892.4	894.4	894.4	896.4	892.4	892.4	896.4	890.4
5°	880.3	878.3	880.3	884.3	886.4	890.4	898.5	896.4	900.5	904.5	906.5
7.5°	874.2	872.2	878.3	880.3	886.4	894.4	906.5	914.6	918.7	926.7	922.7
10°	880.3	880.3	888.4	894.4	904.5	914.6	924.7	932.8	942.9	948.9	946.9
12.5°	890.4	888.4	902.5	910.6	924.7	934.8	942.9	946.9	955.0	963.1	961.1
15°	900.5	902.5	922.7	938.8	955.0	959.0	961.1	957.0	961.1	965.1	965.1
17.5°	920.7	922.7	944.9	963.1	977.2	973.2	963.1	953.0	953.0	955.0	957.0
20°	936.8	940.9	967.1	983.3	991.3	975.2	959.0	946.9	940.9	942.9	940.9
22.5°	955.0	963.1	989.3	997.4	985.3	965.1	944.9	928.8	928.8	930.8	930.8
25°	977.2	981.2	999.4	995.4	973.2	942.9	926.7	920.7	918.7	920.7	922.7
27.5°	997.4	999.4	1009.5	981.2	938.8	906.5	900.5	902.5	904.5	906.5	908.6
30°	1023.6	1027.7	1017.6	961.1	896.4	860.1	860.1	872.2	876.3	882.3	880.3
32.5°	1056.0	1060.0	1029.7	934.8	841.9	805.6	807.6	825.8	837.9	841.9	844.0
35°	1110.5	1102.4	1037.8	898.5	783.4	739.0	741.0	763.2	779.3	785.4	781.4
37.5°	1177.1	1175.1	1049.9	852.0	710.7	670.3	672.3	682.4	698.6	700.6	702.6
40°	1288.1	1272.0	1070.1	791.5	638.0	599.7	595.6	601.7	599.7	603.7	605.7
42.5°	1447.6	1405.2	1096.3	722.8	573.4	533.0	529.0	518.9	506.8	494.7	488.6
45°	1635.4	1568.8	1128.6	652.1	506.8	470.4	460.3	448.2	424.0	397.7	389.7
47.5°	1877.7	1750.5	1165.0	581.5	444.2	415.9	407.8	389.7	361.4	331.1	325.1
50°	2126.0	1964.5	1201.3	522.9	393.7	377.6	369.5	351.3	315.0	286.7	280.6
52.5°	2414.8	2176.5	1239.7	470.4	349.3	349.3	343.2	315.0	280.6	254.4	250.4
55°	2747.9	2394.6	1300.3	420.0	317.0	325.1	317.0	288.7	256.4	238.2	236.2
57.5°	3145.6	2671.2	1377.0	365.4	288.7	294.8	294.8	274.6	252.4	240.3	238.2
60°	3545.4	2951.8	1425.4	325.1	266.5	272.6	284.7	274.6	260.5	254.4	252.4
62.5°	3929.0	3238.5	1342.7	290.7	244.3	262.5	292.8	294.8	280.6	282.7	282.7
65°	4215.7	3456.6	1086.2	260.5	230.2	268.5	317.0	319.0	294.8	288.7	286.7
67.5°	4314.7	3517.1	730.9	240.3	222.1	272.6	345.3	337.2	294.8	282.7	276.6
70°	4126.9	3295.1	474.5	222.1	210.0	268.5	367.5	347.3	292.8	274.6	266.5
72.5°	3460.6	2810.5	317.0	205.9	197.9	264.5	381.6	347.3	286.7	260.5	252.4
75°	2402.6	1920.1	236.2	185.8	179.7	258.4	385.6	341.2	272.6	244.3	238.2
76°	1928.2	1439.6	214.0	177.7	171.6	254.4	383.6	335.2	262.5	236.2	230.2
77.5°	1217.5	827.8	179.7	163.5	159.5	246.3	375.5	321.0	248.3	222.1	216.0
80°	426.0	302.9	137.3	133.3	135.3	228.2	353.3	292.8	220.1	195.8	187.8
82.5°	169.6	139.3	103.0	103.0	107.0	195.8	319.0	258.4	191.8	161.5	149.4
85°	66.6	60.6	72.7	72.7	76.7	159.5	266.5	201.9	131.2	101.0	96.9
87.5°	20.2	28.3	32.3	34.3	36.3	80.8	151.4	88.8	58.6	42.4	34.3
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)