

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: P595422

Luminaire Tested: **IST-PA1F-830-U-T4W**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P595422  
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-PA1F-830-U-T4W  
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE  
(1) 80 CRI, 3000K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8856 lumens  
Efficiency: N/A  
Efficacy: 94.7 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

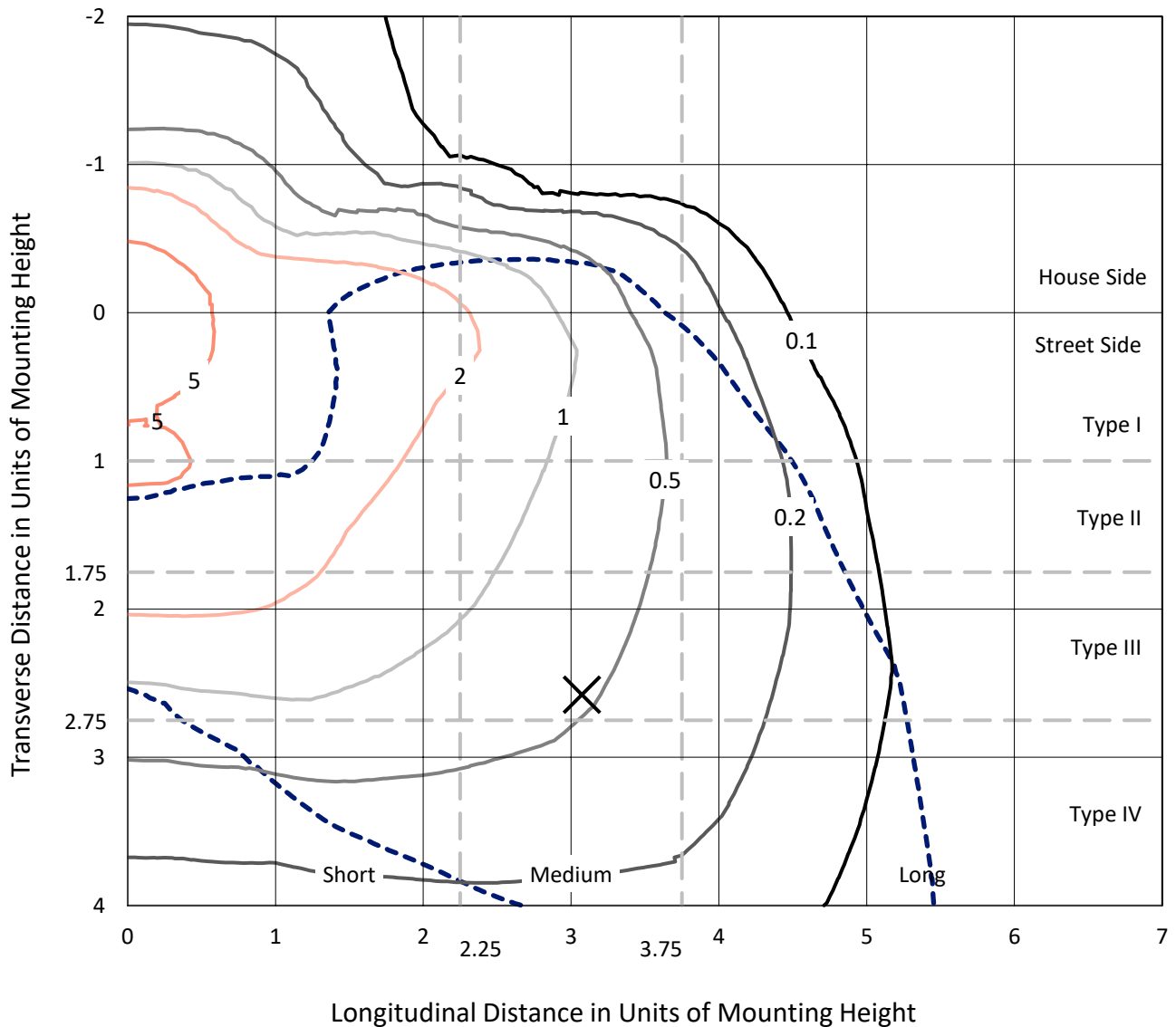
Input Watts (W): 93.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

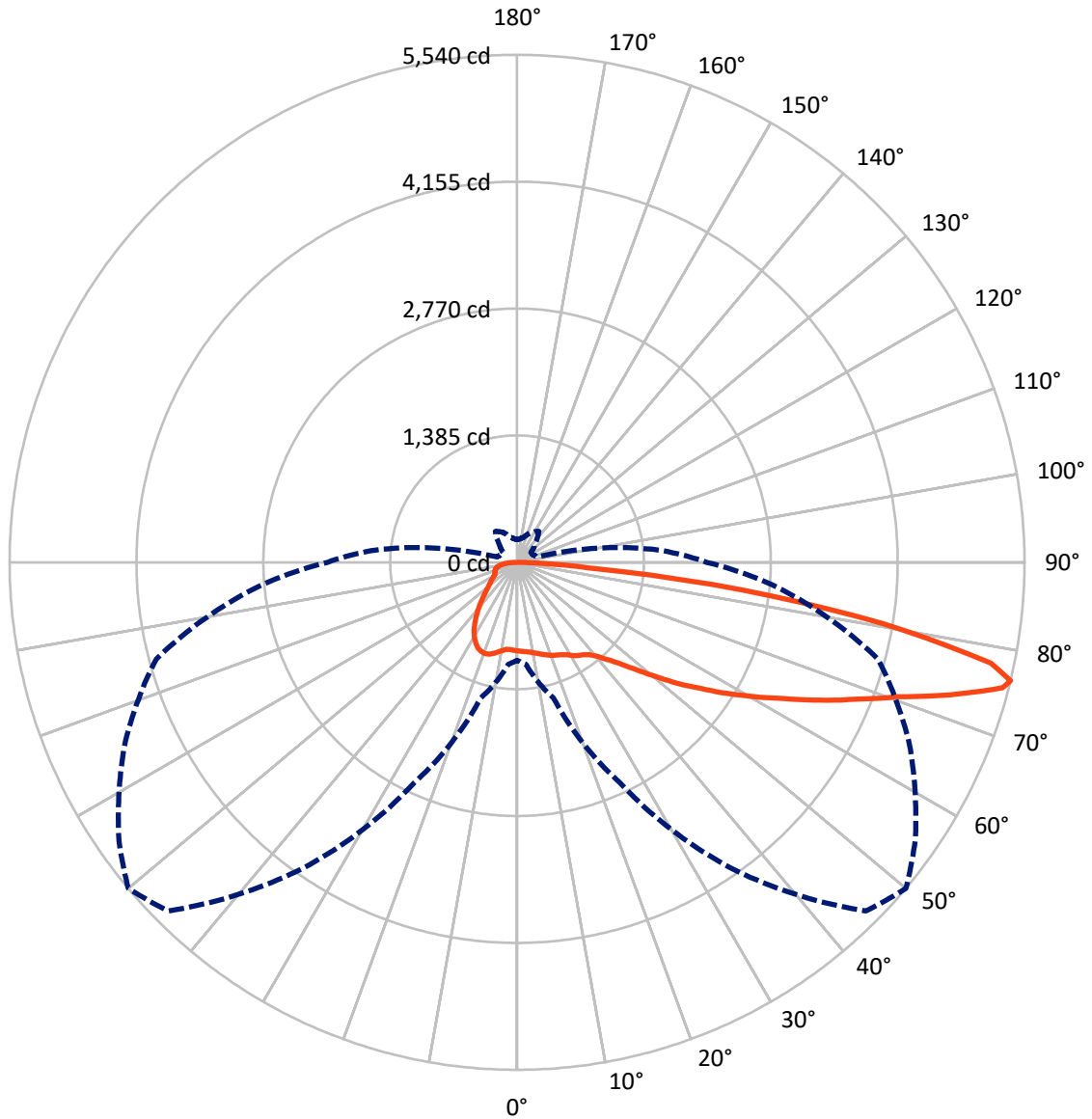
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 7.2 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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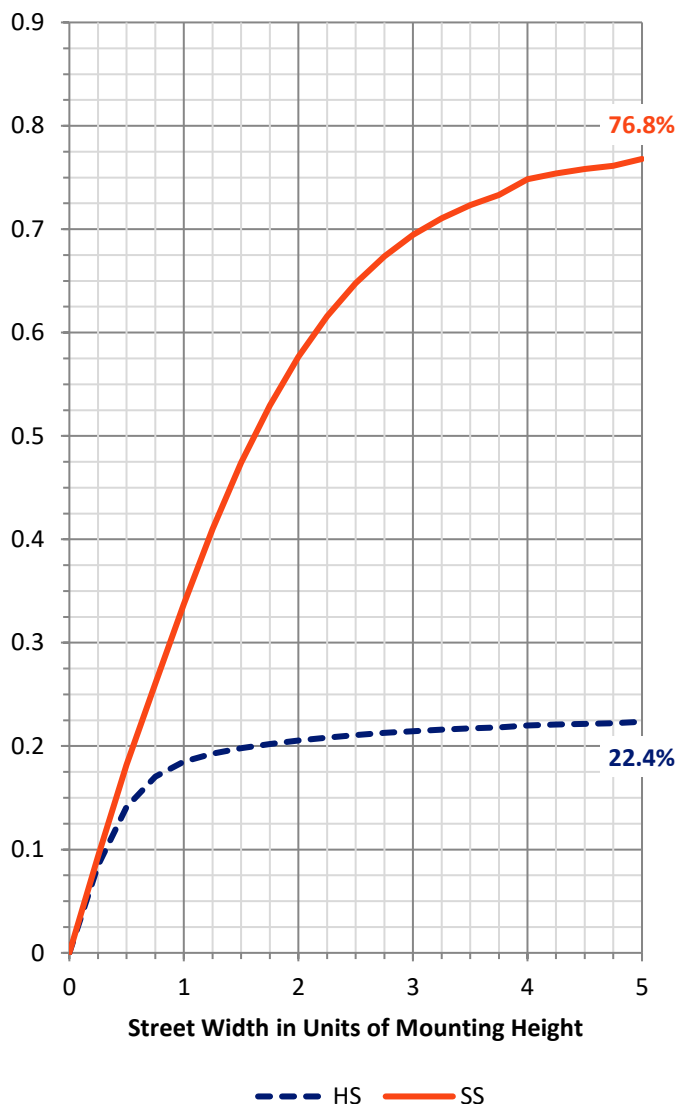
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2025.9	0.0	2025.9
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	6830.1	0.0	6830.1
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	8856.0	0.0	8856.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	93.7	1.1
10°-20°	294.7	3.3
20°-30°	497.8	5.6
30°-40°	682.3	7.7
40°-50°	1004.9	11.3
50°-60°	1580.8	17.9
60°-70°	2275.5	25.7
70°-80°	2069.0	23.4
80°-90°	357.2	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°	8856.0	100.0
0°-180°	8856.0	100.0

**Coefficient of Utilization**

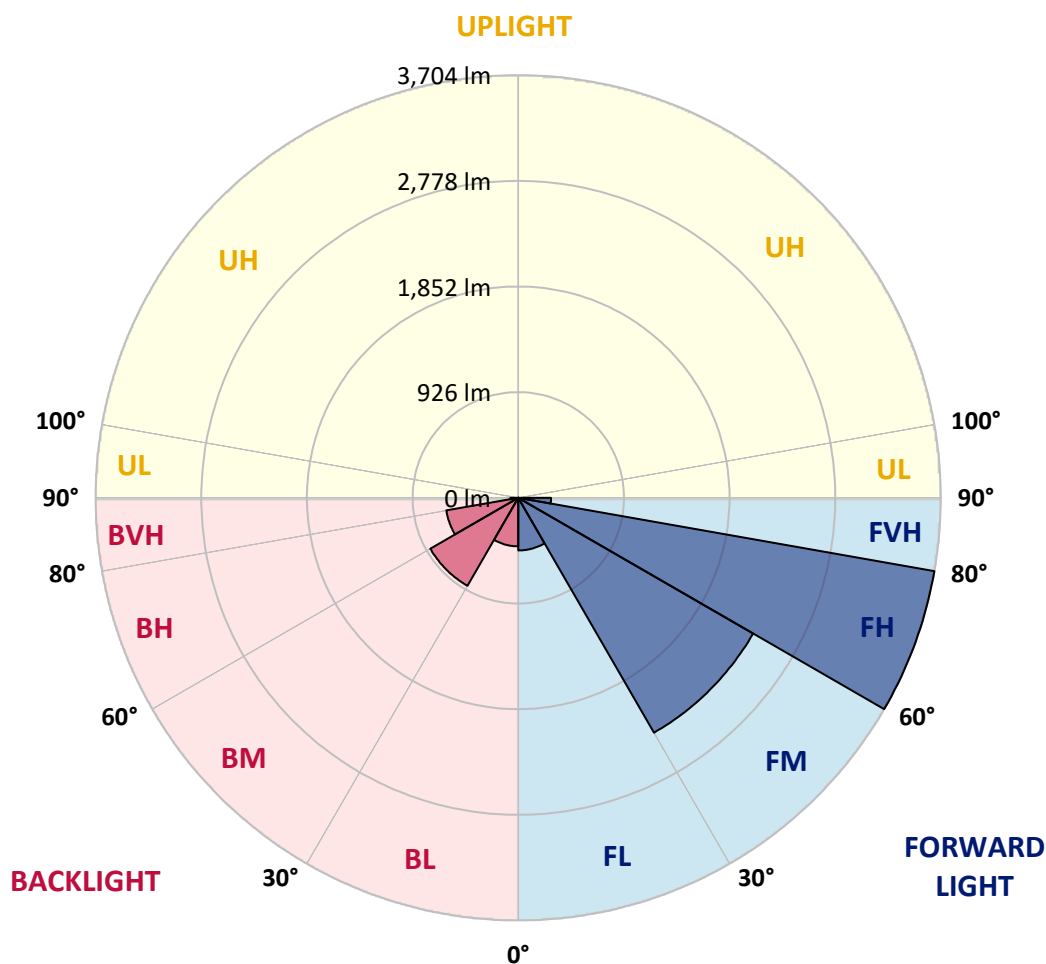


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	460.9	5.2			
FM (30°-60°)	2377.7	26.8			
FH (60°-80°)	3704.0	41.8			G2/5000
FVH (80°-90°)	287.5	3.2			G3/500
BL (0°-30°)	425.3	4.8	B1/500		
BM (30°-60°)	890.4	10.1	B1/1000		
BH (60°-80°)	640.5	7.2	B2/1000		G2/1000
BVH (80°-90°)	69.7	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°	965.3	965.3	965.3	965.3	965.3	965.3	965.3	965.3	965.3	965.3	965.3
2.5°	987.0	987.0	989.1	984.8	984.8	974.0	974.0	971.8	967.5	965.3	960.9
5°	1023.9	1023.9	1017.3	1006.5	1000.0	987.0	980.5	976.1	967.5	956.6	945.8
7.5°	1062.9	1058.6	1054.2	1036.9	1023.9	1000.0	989.1	982.6	965.3	950.1	943.6
10°	1104.1	1097.6	1086.8	1065.1	1045.5	1017.3	1004.3	995.7	976.1	963.1	947.9
12.5°	1128.0	1128.0	1115.0	1088.9	1062.9	1028.2	1021.7	1010.8	991.3	974.0	958.8
15°	1151.8	1154.0	1141.0	1110.6	1080.3	1054.2	1043.4	1036.9	1015.2	989.1	969.6
17.5°	1175.7	1173.5	1160.5	1125.8	1093.3	1069.4	1062.9	1054.2	1032.5	1008.7	989.1
20°	1193.0	1188.7	1184.4	1141.0	1108.4	1093.3	1084.6	1078.1	1056.4	1030.4	1004.3
22.5°	1197.4	1201.7	1197.4	1145.3	1119.3	1101.9	1099.8	1093.3	1075.9	1052.1	1026.0
25°	1199.6	1201.7	1208.2	1158.3	1134.5	1121.5	1117.1	1112.8	1099.8	1080.3	1045.5
27.5°	1210.4	1212.6	1212.6	1167.0	1154.0	1145.3	1141.0	1141.0	1134.5	1110.6	1075.9
30°	1212.6	1214.7	1219.1	1188.7	1184.4	1177.9	1180.0	1177.9	1167.0	1141.0	1101.9
32.5°	1227.8	1229.9	1240.8	1201.7	1206.1	1212.6	1214.7	1212.6	1190.9	1169.2	1136.6
35°	1277.6	1275.5	1284.2	1234.3	1229.9	1232.1	1238.6	1236.4	1227.8	1208.2	1186.5
37.5°	1438.2	1438.2	1414.3	1310.2	1277.6	1273.3	1277.6	1288.5	1290.7	1273.3	1256.0
40°	1720.2	1705.0	1692.0	1466.4	1362.2	1336.2	1349.2	1355.7	1373.1	1373.1	1373.1
42.5°	2010.8	2013.0	2008.7	1709.3	1514.1	1449.0	1451.2	1466.4	1503.2	1509.7	1529.3
45°	2269.0	2284.1	2316.7	1991.3	1737.5	1592.2	1577.0	1592.2	1644.2	1687.6	1737.5
47.5°	2470.7	2453.3	2524.9	2286.3	1993.5	1787.4	1748.4	1752.7	1824.3	1893.7	1971.8
50°	2644.2	2648.6	2681.1	2587.8	2316.7	2008.7	1956.6	1947.9	2049.9	2123.6	2255.9
52.5°	2839.5	2826.4	2874.2	2852.5	2631.2	2279.8	2197.4	2171.3	2282.0	2386.1	2529.3
55°	2932.7	2945.7	3043.4	3097.6	2928.4	2522.8	2431.6	2440.3	2557.5	2668.1	2867.7
57.5°	3097.6	3110.6	3223.4	3336.2	3193.0	2780.9	2700.6	2700.6	2832.9	2956.6	3264.6
60°	3323.2	3325.3	3440.3	3635.5	3425.1	3030.3	2978.3	2976.1	3119.3	3262.4	3733.2
62.5°	3423.0	3449.0	3620.4	3874.2	3728.8	3336.2	3275.5	3292.8	3420.8	3587.8	4255.9
65°	3288.5	3344.9	3702.8	4034.7	4000.0	3655.1	3631.2	3655.1	3733.2	3913.2	4809.1
67.5°	2843.8	2919.7	3550.9	4143.1	4216.9	4023.8	3989.1	3984.8	4034.7	4236.4	5158.3
70°	2613.9	2659.4	3149.6	4184.3	4390.4	4396.9	4396.9	4368.7	4362.2	4509.7	5190.8
72.5°	2151.8	2199.5	2657.2	3954.4	4555.3	4895.8	4945.7	4841.6	4681.1	4650.7	4646.4
75°	1533.6	1568.3	1963.1	3110.6	4344.9	5375.2	5475.0	5273.3	4826.4	4342.7	3388.3
76°	1069.4	1119.3	1533.6	2657.2	4080.2	5383.9	5540.1	5305.8	4728.8	4078.1	2791.7
77.5°	542.3	559.6	887.2	1785.2	3414.3	5136.6	5288.5	5026.0	4303.6	3295.0	1772.2
80°	206.1	212.6	316.7	650.8	1874.2	3989.1	4047.7	3694.1	2848.1	1407.8	637.7
82.5°	108.5	112.8	177.9	321.0	770.1	2193.0	2475.0	2060.7	1117.1	423.0	186.5
85°	54.2	58.6	104.1	195.2	381.8	685.5	793.9	750.5	370.9	160.5	69.4
87.5°	21.7	26.0	52.1	86.8	154.0	134.5	149.7	193.1	119.3	75.9	23.9
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°	965.3	965.3	965.3	965.3	965.3	965.3	965.3	965.3	965.3	965.3	965.3
2.5°	960.9	958.8	960.9	958.8	960.9	960.9	963.1	958.8	958.8	963.1	956.6
5°	945.8	943.6	945.8	950.1	952.3	956.6	965.3	963.1	967.5	971.8	974.0
7.5°	939.3	937.1	943.6	945.8	952.3	960.9	974.0	982.6	987.0	995.7	991.3
10°	945.8	945.8	954.4	960.9	971.8	982.6	993.5	1002.2	1013.0	1019.5	1017.3
12.5°	956.6	954.4	969.6	978.3	993.5	1004.3	1013.0	1017.3	1026.0	1034.7	1032.5
15°	967.5	969.6	991.3	1008.7	1026.0	1030.4	1032.5	1028.2	1032.5	1036.9	1036.9
17.5°	989.1	991.3	1015.2	1034.7	1049.9	1045.5	1034.7	1023.9	1023.9	1026.0	1028.2
20°	1006.5	1010.8	1039.0	1056.4	1065.1	1047.7	1030.4	1017.3	1010.8	1013.0	1010.8
22.5°	1026.0	1034.7	1062.9	1071.6	1058.6	1036.9	1015.2	997.8	997.8	1000.0	1000.0
25°	1049.9	1054.2	1073.7	1069.4	1045.5	1013.0	995.7	989.1	987.0	989.1	991.3
27.5°	1071.6	1073.7	1084.6	1054.2	1008.7	974.0	967.5	969.6	971.8	974.0	976.1
30°	1099.8	1104.1	1093.3	1032.5	963.1	924.1	924.1	937.1	941.4	947.9	945.8
32.5°	1134.5	1138.8	1106.3	1004.3	904.5	865.5	867.7	887.2	900.2	904.5	906.7
35°	1193.0	1184.4	1115.0	965.3	841.6	793.9	796.1	819.9	837.3	843.8	839.5
37.5°	1264.6	1262.5	1128.0	915.4	763.6	720.2	722.3	733.2	750.5	752.7	754.9
40°	1383.9	1366.6	1149.7	850.3	685.5	644.2	639.9	646.4	644.2	648.6	650.8
42.5°	1555.3	1509.7	1177.9	776.6	616.0	572.7	568.3	557.5	544.5	531.4	524.9
45°	1757.0	1685.5	1212.6	700.6	544.5	505.4	494.6	481.6	455.5	427.3	418.7
47.5°	2017.3	1880.7	1251.6	624.7	477.2	446.9	438.2	418.7	388.3	355.7	349.2
50°	2284.1	2110.6	1290.7	561.8	423.0	405.6	397.0	377.4	338.4	308.0	301.5
52.5°	2594.3	2338.4	1331.9	505.4	375.3	375.3	368.8	338.4	301.5	273.3	269.0
55°	2952.3	2572.6	1397.0	451.2	340.6	349.2	340.6	310.2	275.5	256.0	253.8
57.5°	3379.6	2869.8	1479.4	392.6	310.2	316.7	316.7	295.0	271.1	258.1	256.0
60°	3809.1	3171.3	1531.4	349.2	286.3	292.8	305.9	295.0	279.8	273.3	271.1
62.5°	4221.2	3479.4	1442.5	312.4	262.5	282.0	314.5	316.7	301.5	303.7	303.7
65°	4529.2	3713.6	1167.0	279.8	247.3	288.5	340.6	342.7	316.7	310.2	308.0
67.5°	4635.5	3778.7	785.2	258.1	238.6	292.8	370.9	362.3	316.7	303.7	297.2
70°	4433.8	3540.1	509.8	238.6	225.6	288.5	394.8	373.1	314.5	295.0	286.3
72.5°	3718.0	3019.5	340.6	221.3	212.6	284.2	410.0	373.1	308.0	279.8	271.1
75°	2581.3	2062.9	253.8	199.6	193.1	277.7	414.3	366.6	292.8	262.5	256.0
76°	2071.6	1546.6	229.9	190.9	184.4	273.3	412.1	360.1	282.0	253.8	247.3
77.5°	1308.0	889.4	193.1	175.7	171.4	264.6	403.5	344.9	266.8	238.6	232.1
80°	457.7	325.4	147.5	143.2	145.3	245.1	379.6	314.5	236.4	210.4	201.7
82.5°	182.2	149.7	110.6	110.6	115.0	210.4	342.7	277.7	206.1	173.5	160.5
85°	71.6	65.1	78.1	78.1	82.4	171.4	286.3	216.9	141.0	108.5	104.1
87.5°	21.7	30.4	34.7	36.9	39.0	86.8	162.7	95.4	62.9	45.6	36.9
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)