

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: P594716

Luminaire Tested: **ISS-PA1D-735-U-T2U**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P594716  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/22/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: ISS-PA1D-735-U-T2U  
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE  
(1) 70 CRI, 3500K, 800mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8031 lumens  
Efficiency: N/A  
Efficacy: 127.5 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

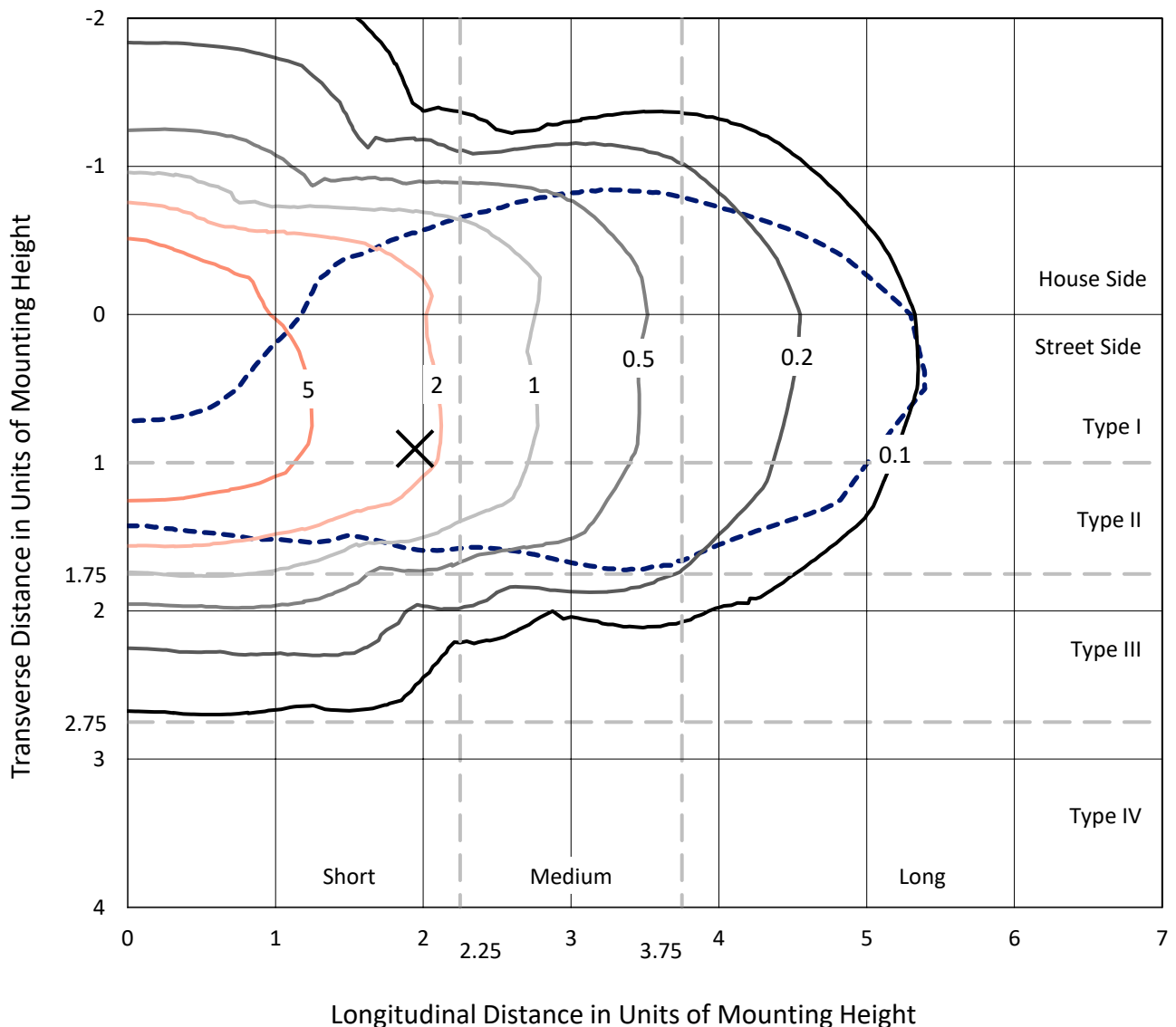
Input Watts (W): 63  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

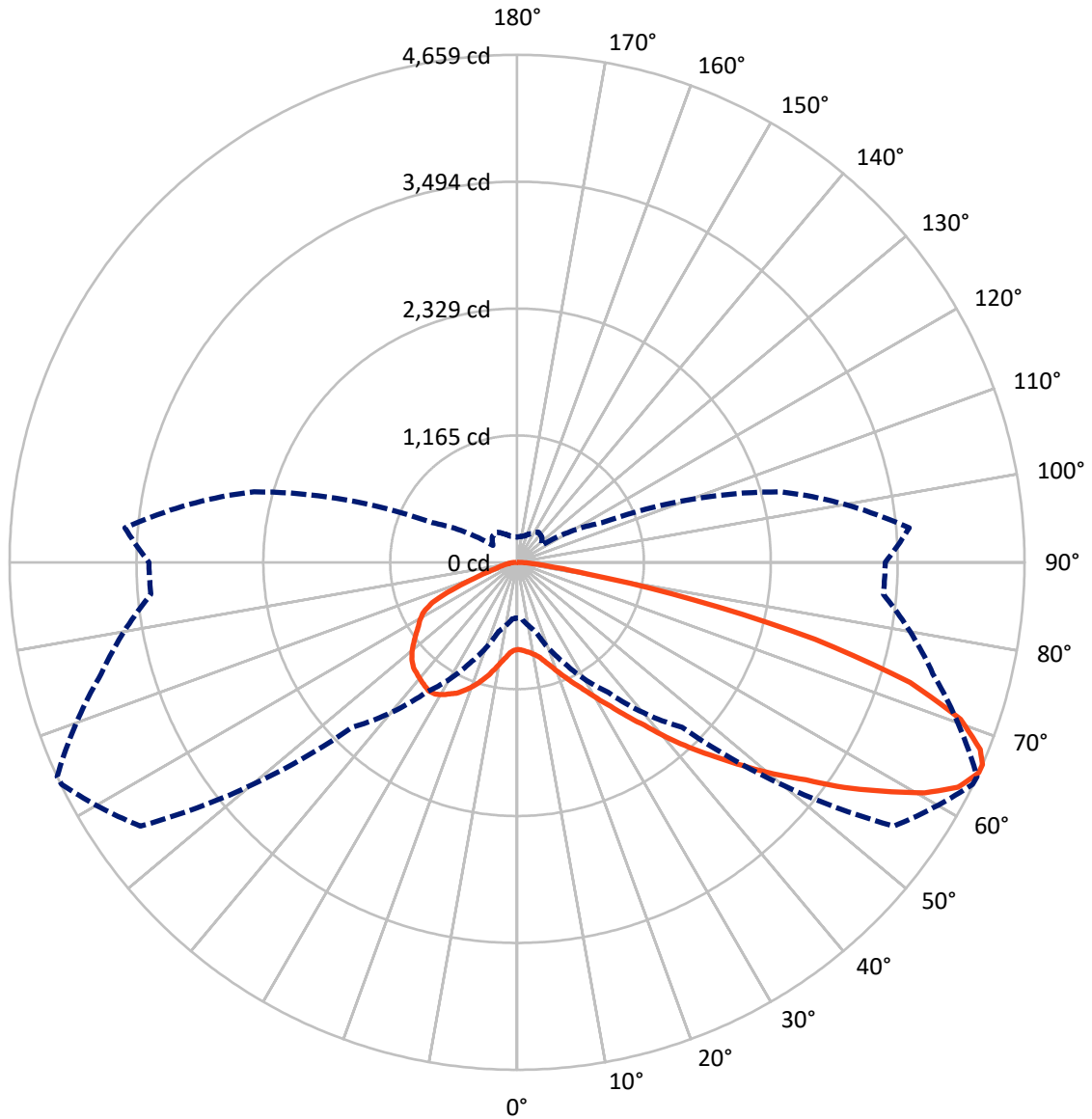
✕ Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 8.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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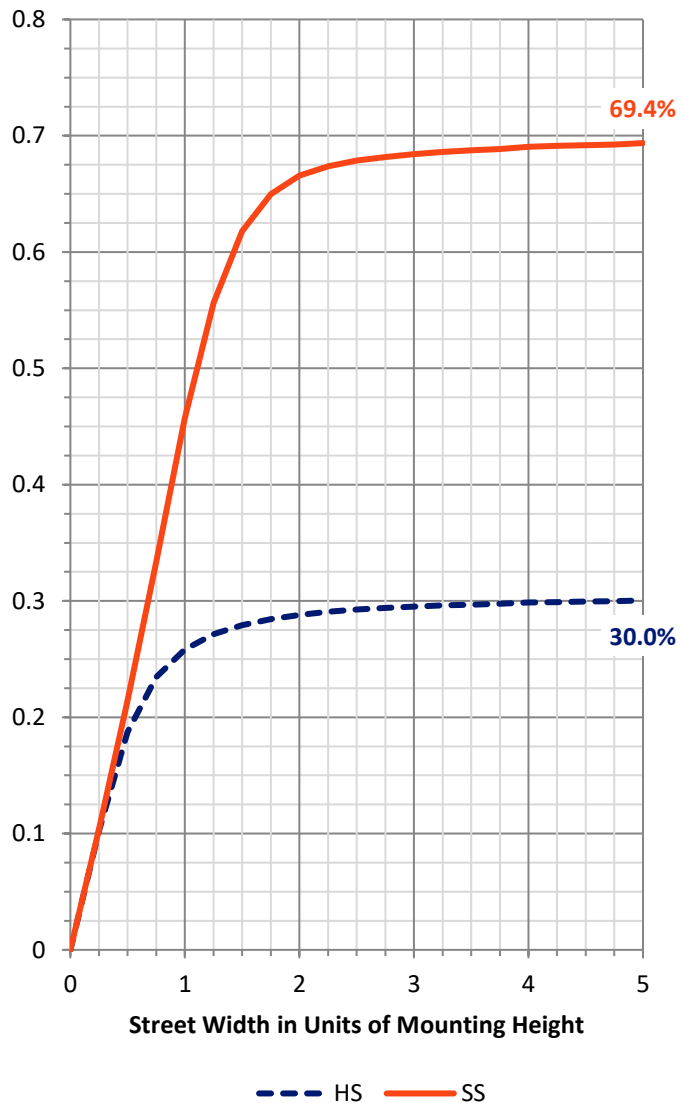
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2438.5	0.0	2438.5
	% Fixture	30.4	0.0	30.4
<b>Street Side</b>	Lumens	5592.5	0.0	5592.5
	% Fixture	69.6	0.0	69.6
<b>Total</b>	Lumens	8031.0	0.0	8031.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	81.6	1.0
10°-20°	284.6	3.5
20°-30°	557.4	6.9
30°-40°	910.9	11.3
40°-50°	1445.8	18.0
50°-60°	1859.5	23.2
60°-70°	1676.9	20.9
70°-80°	1040.0	13.0
80°-90°	174.3	2.2
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°	8031.0	100.0
0°-180°	8031.0	100.0

**Coefficient of Utilization**



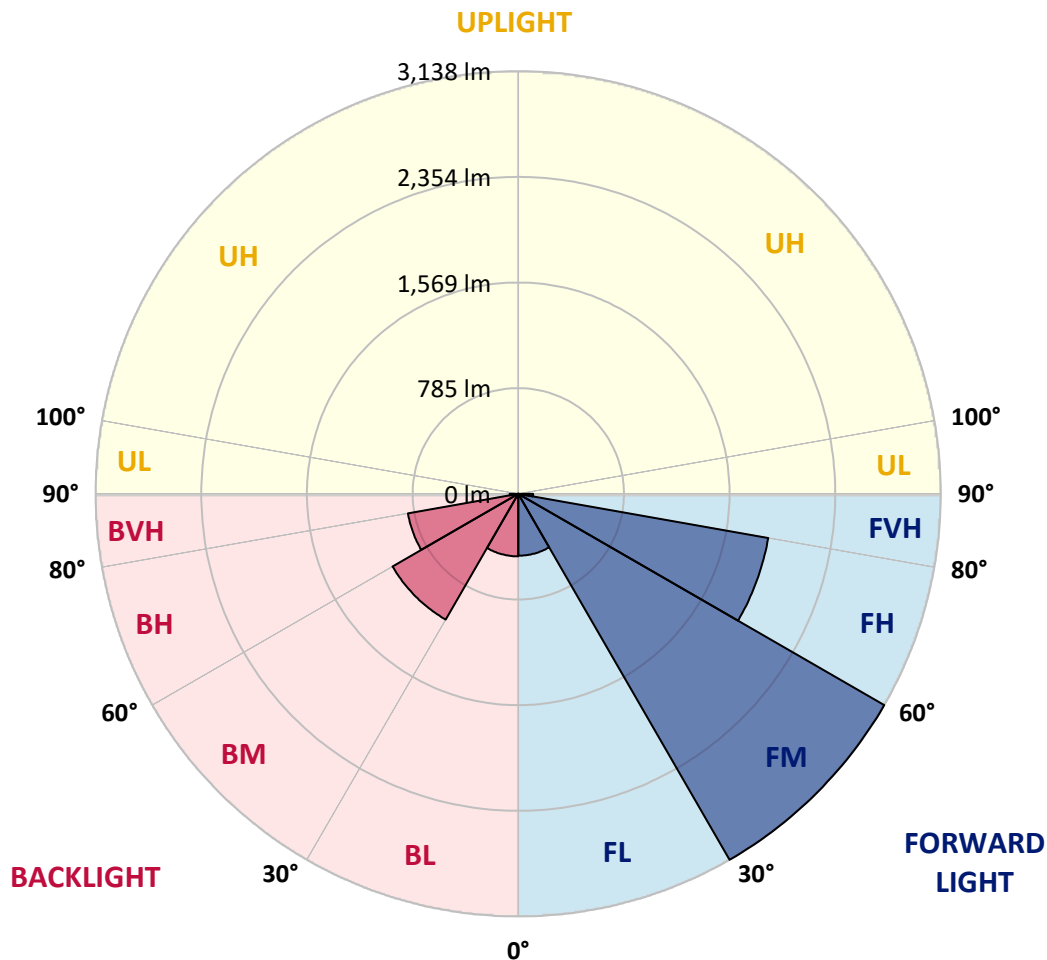
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	459.3	5.7			
FM (30°-60°)	3138.1	39.1			
FH (60°-80°)	1884.9	23.5			G2/5000
FVH (80°-90°)	110.2	1.4			G2/225
BL (0°-30°)	464.5	5.8	B1/500		
BM (30°-60°)	1078.0	13.4	B2/2500		
BH (60°-80°)	832.0	10.4	B2/1000		G2/1000
BVH (80°-90°)	64.0	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-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	800.5	800.5	800.5	800.5	800.5	800.5	800.5	800.5	800.5	800.5	800.5
2.5°	802.4	804.4	806.3	802.4	806.3	808.3	804.4	804.4	806.3	802.4	802.4
5°	796.6	798.6	802.4	804.4	812.2	816.1	818.0	818.0	820.0	818.0	820.0
7.5°	781.0	781.0	788.8	792.7	804.4	818.0	825.8	837.5	837.5	839.5	845.3
10°	796.6	796.6	802.4	808.3	818.0	829.7	841.4	855.0	858.9	872.6	880.4
12.5°	820.0	823.9	831.7	839.5	851.1	864.8	874.5	888.1	890.1	903.7	919.3
15°	858.9	862.8	866.7	876.5	892.0	909.6	927.1	936.8	940.7	948.5	960.2
17.5°	917.4	921.3	923.2	929.0	940.7	964.1	989.4	997.2	1001.1	1001.1	1010.8
20°	1016.7	1014.7	1010.8	999.2	999.2	1020.6	1055.6	1069.3	1073.2	1065.4	1059.5
22.5°	1131.6	1129.7	1114.1	1100.4	1090.7	1094.6	1129.7	1153.0	1151.1	1135.5	1112.1
25°	1281.6	1285.5	1260.2	1225.1	1195.9	1188.1	1209.5	1232.9	1236.8	1207.6	1168.6
27.5°	1460.8	1454.9	1441.3	1384.8	1328.3	1293.3	1305.0	1330.3	1332.2	1301.1	1238.7
30°	1671.1	1661.4	1626.3	1567.9	1480.2	1431.6	1421.8	1443.2	1449.1	1396.5	1306.9
32.5°	1904.8	1895.1	1850.3	1760.7	1665.3	1583.5	1552.3	1581.5	1577.6	1517.2	1392.6
35°	2187.3	2185.3	2103.5	1992.5	1871.7	1762.7	1719.8	1719.8	1731.5	1641.9	1501.7
37.5°	2565.1	2580.7	2459.9	2286.6	2117.1	1971.1	1899.0	1895.1	1897.0	1799.7	1624.4
40°	2905.9	2900.1	2830.0	2668.3	2421.0	2234.0	2126.9	2103.5	2109.3	1984.7	1784.1
42.5°	3102.7	3108.5	3091.0	3020.9	2804.7	2569.0	2385.9	2323.6	2325.5	2169.7	1936.0
45°	3225.4	3231.2	3229.3	3264.3	3178.6	2956.6	2695.6	2551.5	2543.7	2380.1	2115.2
47.5°	3295.5	3299.4	3324.7	3396.8	3466.9	3416.2	3038.4	2804.7	2789.1	2576.8	2294.4
50°	3217.6	3219.5	3320.8	3492.2	3663.6	3817.5	3389.0	3055.9	3052.0	2794.9	2469.7
52.5°	2808.6	2843.6	3067.6	3426.0	3809.7	4101.8	3794.1	3352.0	3318.9	3001.4	2645.0
55°	2292.4	2308.0	2565.1	3020.9	3782.4	4277.1	4099.9	3671.4	3648.0	3231.2	2816.4
57.5°	1789.9	1805.5	2111.3	2491.1	3365.6	4267.4	4316.1	4016.1	3963.5	3431.8	2987.8
60°	1155.0	1203.7	1558.1	2025.6	2724.8	3971.3	4425.1	4347.2	4298.5	3630.5	3133.8
62.5°	784.9	792.7	1014.7	1501.7	2039.2	3227.3	4417.4	4551.7	4544.0	3829.2	3279.9
65°	510.3	522.0	656.4	1016.7	1458.8	2142.5	4222.6	4651.1	4658.9	3951.9	3375.3
66°	432.4	440.2	543.4	855.0	1277.7	1698.4	4051.2	4643.3	4658.9	4008.3	3404.6
67.5°	375.9	381.7	434.3	631.1	1044.0	1221.2	3605.2	4540.1	4584.9	4060.9	3441.6
70°	323.3	331.1	379.8	430.4	746.0	712.9	2282.7	4275.2	4320.0	4086.2	3464.9
72.5°	266.8	272.7	321.4	389.5	541.5	479.1	1007.0	3659.7	3772.7	3992.8	3427.9
75°	210.4	214.2	259.0	325.3	414.9	374.0	438.2	2683.9	2826.1	3519.5	3283.8
77.5°	163.6	165.6	200.6	253.2	379.8	290.2	270.7	1306.9	1653.6	2719.0	2892.3
80°	113.0	116.9	148.0	190.9	278.5	229.8	181.1	510.3	648.6	1805.5	2193.1
82.5°	74.0	76.0	101.3	144.1	185.0	220.1	118.8	247.4	272.7	831.7	950.5
85°	50.6	50.6	72.1	89.6	126.6	146.1	77.9	130.5	142.2	315.5	114.9
87.5°	25.3	25.3	35.1	46.7	60.4	56.5	46.7	46.7	46.7	103.2	33.1
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°	800.5	800.5	800.5	800.5	800.5	800.5	800.5	800.5	800.5	800.5	800.5
2.5°	804.4	804.4	806.3	808.3	810.2	810.2	812.2	812.2	810.2	812.2	814.1
5°	821.9	823.9	827.8	833.6	843.3	853.1	862.8	868.7	874.5	876.5	872.6
7.5°	849.2	853.1	866.7	882.3	897.9	921.3	934.9	942.7	946.6	950.5	946.6
10°	884.3	892.0	911.5	938.8	966.1	995.3	1010.8	1022.5	1024.5	1028.4	1024.5
12.5°	925.2	938.8	968.0	1007.0	1040.1	1069.3	1081.0	1073.2	1055.6	1047.9	1045.9
15°	973.8	987.5	1028.4	1077.1	1116.0	1129.7	1112.1	1086.8	1067.3	1065.4	1063.4
17.5°	1016.7	1036.2	1092.7	1143.3	1180.3	1166.7	1119.9	1104.3	1098.5	1106.3	1104.3
20°	1071.2	1086.8	1143.3	1205.6	1225.1	1172.5	1139.4	1129.7	1123.8	1123.8	1119.9
22.5°	1116.0	1127.7	1195.9	1264.0	1252.4	1176.4	1153.0	1133.6	1114.1	1112.1	1106.3
25°	1168.6	1172.5	1244.6	1318.6	1256.3	1180.3	1139.4	1106.3	1086.8	1081.0	1082.9
27.5°	1217.3	1227.0	1289.4	1355.6	1246.5	1158.9	1092.7	1049.8	1020.6	1018.6	1018.6
30°	1279.6	1279.6	1336.1	1396.5	1225.1	1104.3	1016.7	954.4	931.0	929.0	925.2
32.5°	1349.7	1338.1	1392.6	1425.7	1178.4	1030.3	913.5	843.3	806.3	798.6	792.7
35°	1447.1	1421.8	1460.8	1431.6	1131.6	925.2	783.0	703.1	675.8	664.2	664.2
37.5°	1560.1	1523.1	1564.0	1414.0	1059.5	802.4	646.6	586.3	557.0	539.5	545.4
40°	1692.5	1645.8	1669.2	1394.5	981.6	666.1	533.7	496.7	461.6	438.2	438.2
42.5°	1848.4	1770.4	1788.0	1375.1	870.6	547.3	461.6	436.3	409.0	385.6	391.5
45°	1998.3	1922.4	1904.8	1355.6	753.8	467.4	432.4	414.9	389.5	362.3	362.3
47.5°	2171.7	2074.3	2008.1	1320.5	638.8	442.1	440.2	414.9	366.2	327.2	323.3
50°	2335.3	2245.7	2101.6	1267.9	574.6	463.5	438.2	377.9	331.1	305.8	303.8
52.5°	2508.6	2415.1	2177.5	1203.7	541.5	453.8	403.2	346.7	311.6	286.3	280.5
55°	2680.0	2631.3	2245.7	1141.3	488.9	422.6	374.0	327.2	290.2	266.8	262.9
57.5°	2874.8	2855.3	2304.1	1079.0	407.1	383.7	352.5	313.6	278.5	261.0	259.0
60°	3044.2	3112.4	2374.2	1032.3	346.7	354.5	342.8	311.6	286.3	266.8	266.8
62.5°	3223.4	3359.8	2436.6	971.9	301.9	336.9	344.7	309.7	276.6	259.0	259.0
65°	3379.2	3613.0	2500.8	860.9	270.7	323.3	338.9	288.3	249.3	235.7	231.8
66°	3445.5	3685.0	2520.3	792.7	259.0	313.6	329.2	276.6	237.6	225.9	224.0
67.5°	3523.4	3798.0	2543.7	646.6	241.5	292.2	307.7	259.0	218.1	210.4	206.5
70°	3632.4	3821.4	2530.0	422.6	210.4	251.3	274.6	231.8	194.8	188.9	183.1
72.5°	3644.1	3661.7	2393.7	266.8	183.1	216.2	241.5	208.4	171.4	165.6	161.7
75°	3451.3	3244.8	2025.6	190.9	161.7	190.9	212.3	181.1	142.2	134.4	130.5
77.5°	2946.9	2574.8	1456.9	142.2	140.2	163.6	177.2	157.8	118.8	113.0	111.0
80°	2068.4	1747.1	730.4	107.1	111.0	136.3	148.0	132.4	99.3	91.5	87.6
82.5°	837.5	742.1	251.3	79.9	83.8	103.2	126.6	109.1	76.0	66.2	58.4
85°	95.4	161.7	109.1	54.5	56.5	70.1	85.7	66.2	44.8	37.0	31.2
87.5°	19.5	35.1	39.0	21.4	19.5	27.3	39.0	23.4	15.6	5.8	7.8
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)