

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: P594313

Luminaire Tested: **ISC-PA1E-740-U-T3**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P594313  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/22/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: ISC-PA1E-740-U-T3  
Description: IMPACT ELITE LED CYLINDER LUMINAIRE  
(1) 70 CRI, 4000K, 1050mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10464 lumens  
Efficiency: N/A  
Efficacy: 127.0 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

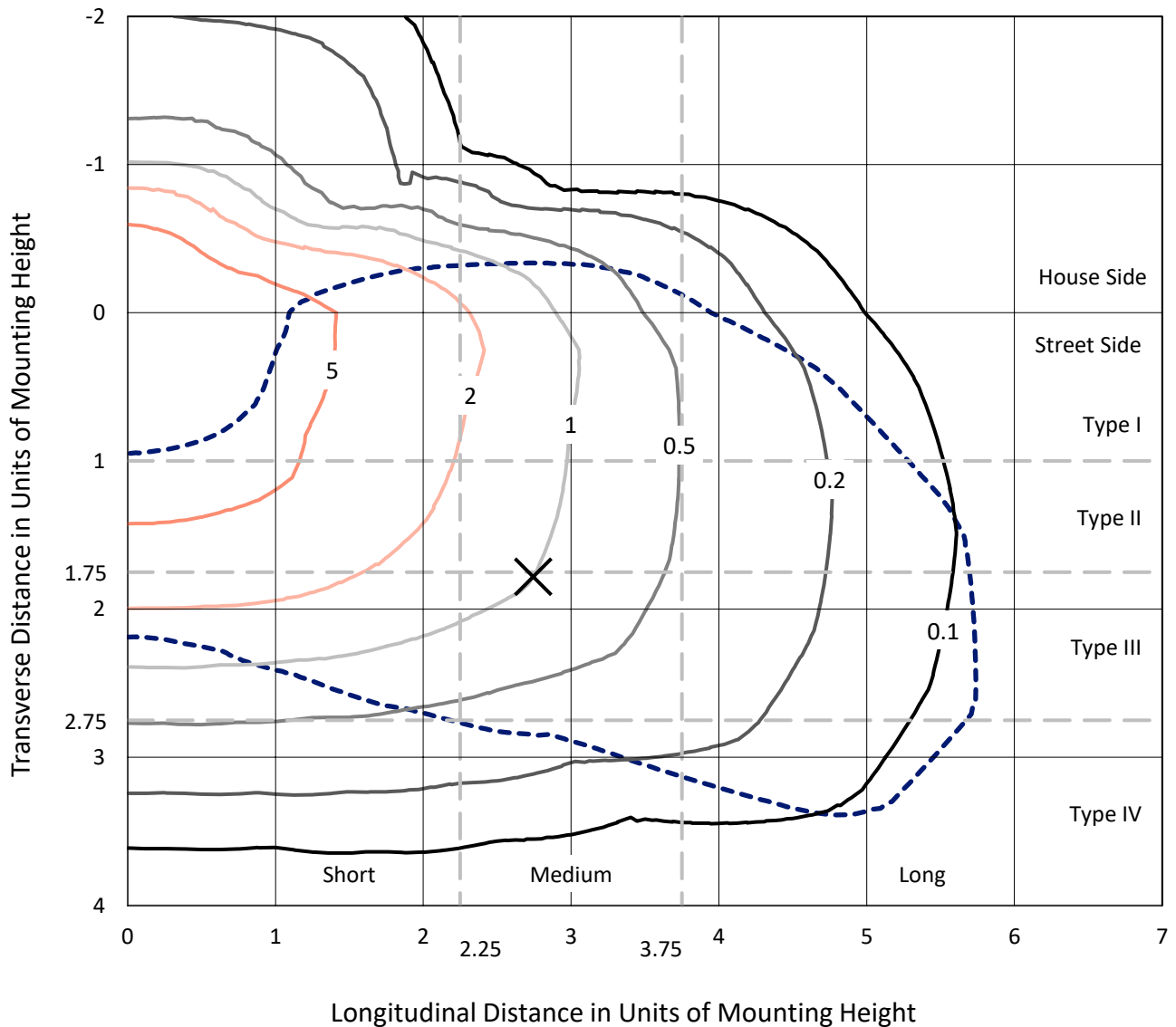
Input Watts (W): 82.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

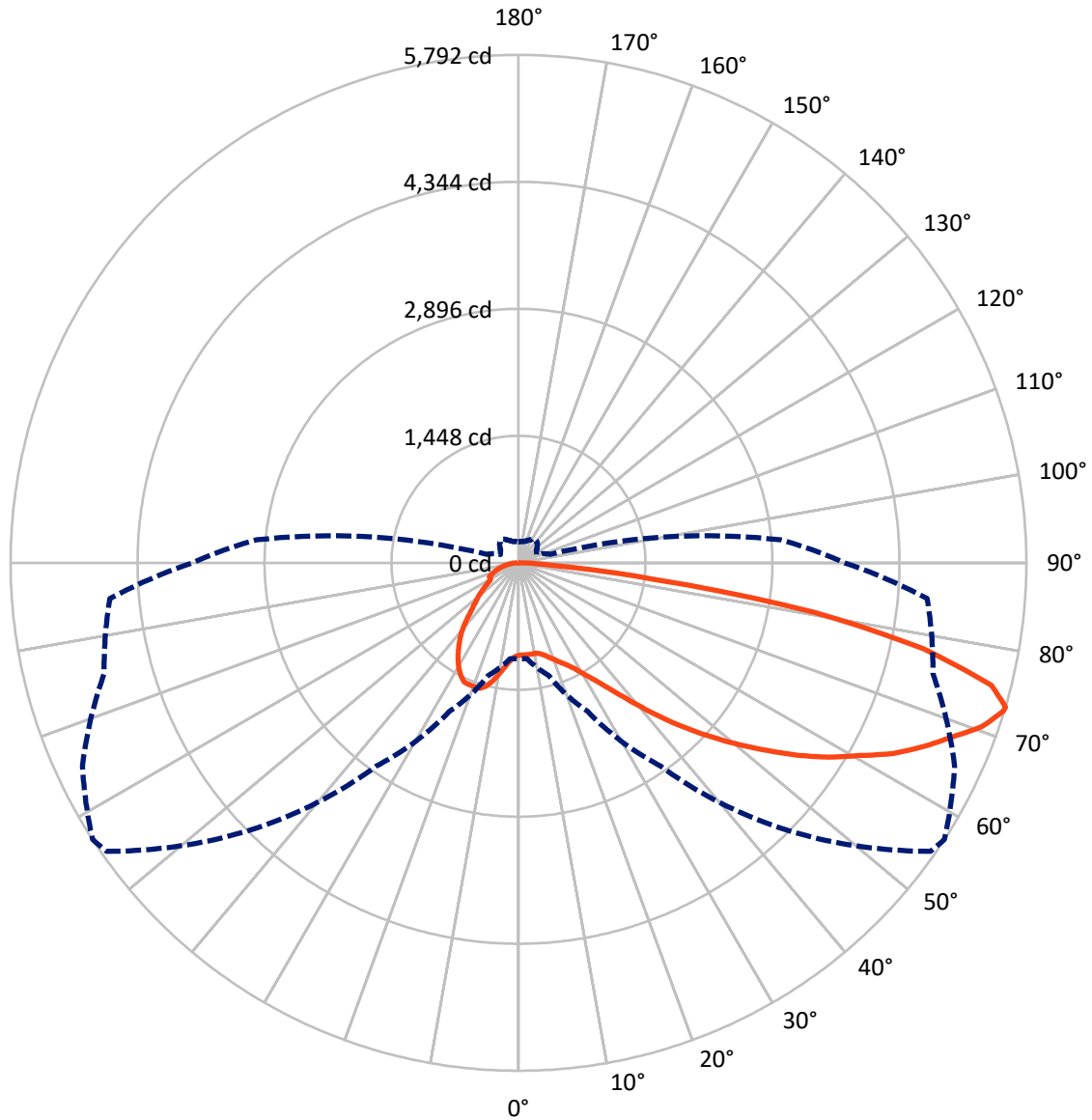
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 9 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral      - - - Horizontal Cone Through 73-Deg Vertical

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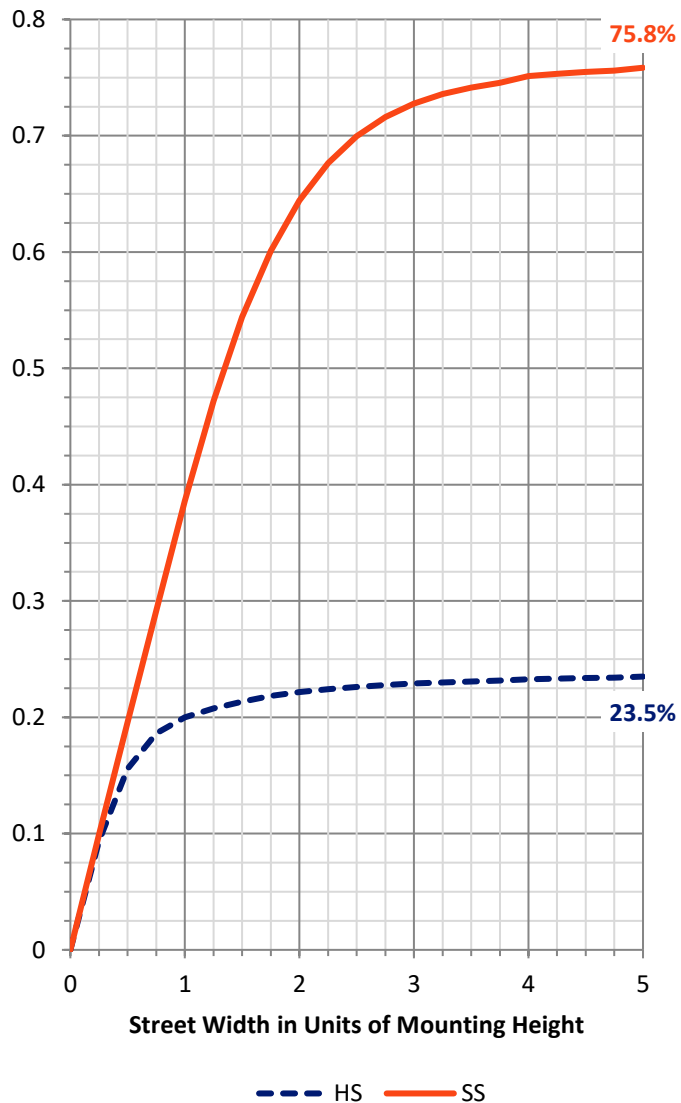
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2496.4	0.0	2496.4
	% Fixture	23.9	0.0	23.9
<b>Street Side</b>	Lumens	7967.6	0.0	7967.6
	% Fixture	76.1	0.0	76.1
<b>Total</b>	Lumens	10464.0	0.0	10464.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	105.2	1.0
10°-20°	346.2	3.3
20°-30°	639.1	6.1
30°-40°	986.8	9.4
40°-50°	1485.4	14.2
50°-60°	2174.0	20.8
60°-70°	2567.3	24.5
70°-80°	1838.1	17.6
80°-90°	322.1	3.1
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°	10464.0	100.0
0°-180°	10464.0	100.0

**Coefficient of Utilization**

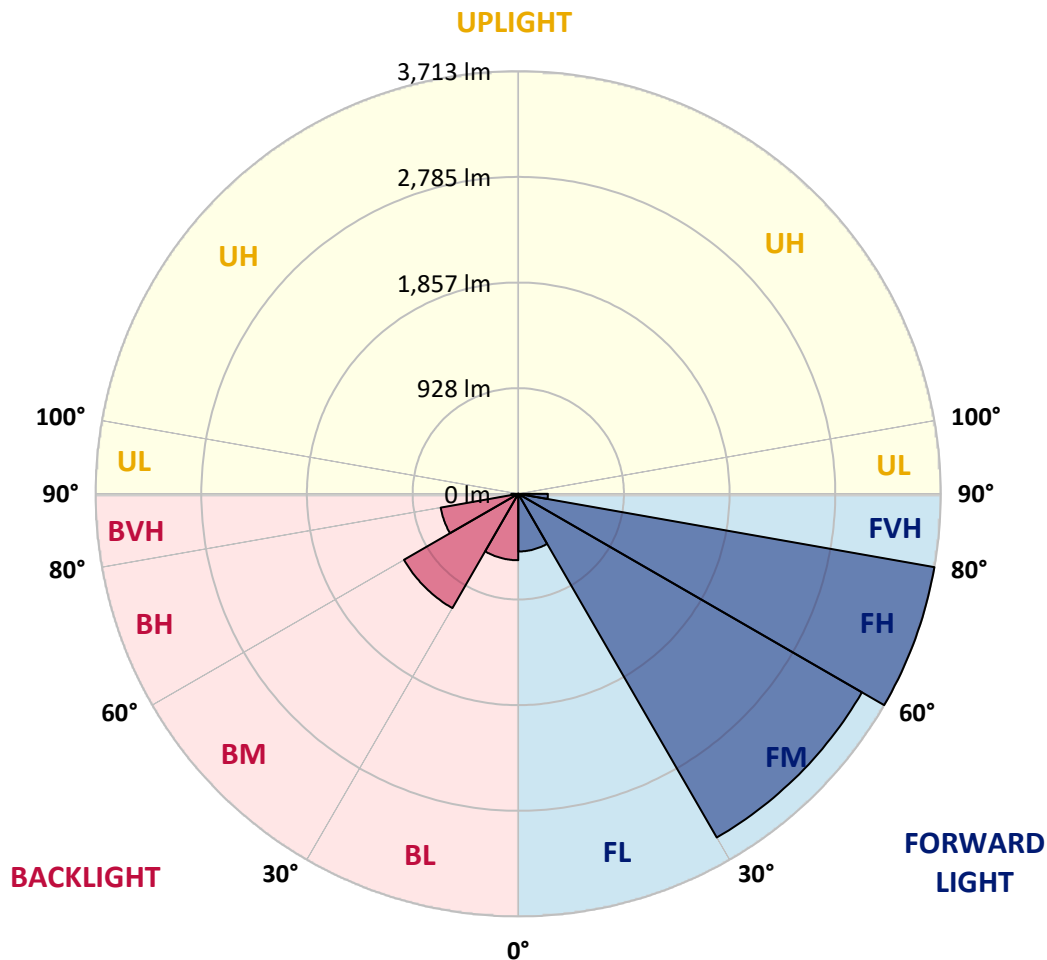


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	507.0	4.8			
FM (30°-60°)	3486.9	33.3			
FH (60°-80°)	3713.2	35.5			G2/5000
FVH (80°-90°)	260.6	2.5			G3/500
BL (0°-30°)	583.4	5.6	B2/1000		
BM (30°-60°)	1159.3	11.1	B2/2500		
BH (60°-80°)	692.2	6.6	B2/1000		G2/1000
BVH (80°-90°)	61.5	0.6			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°	55°	57°	65°	75°	85°
0°	1054.3	1054.3	1054.3	1054.3	1054.3	1054.3	1054.3	1054.3	1054.3	1054.3	1054.3
2.5°	1041.4	1046.6	1044.0	1046.6	1054.3	1049.1	1049.1	1051.7	1054.3	1051.7	1056.8
5°	997.8	1000.4	1005.5	1015.8	1033.7	1038.9	1051.7	1051.7	1056.8	1061.9	1069.6
7.5°	926.0	931.1	941.4	951.6	982.4	1013.2	1046.6	1051.7	1069.6	1082.5	1087.6
10°	913.2	918.3	920.9	936.3	967.0	997.8	1038.9	1049.1	1082.5	1103.0	1126.1
12.5°	900.3	905.5	913.2	933.7	972.2	1005.5	1049.1	1059.4	1100.4	1141.5	1169.7
15°	910.6	913.2	920.9	941.4	979.9	1026.0	1082.5	1090.2	1136.3	1187.6	1231.2
17.5°	936.3	938.8	936.3	954.2	990.1	1044.0	1120.9	1133.8	1190.2	1241.5	1285.1
20°	995.3	997.8	987.6	987.6	1013.2	1067.1	1162.0	1179.9	1249.2	1305.6	1349.2
22.5°	1123.5	1118.4	1092.7	1059.4	1059.4	1103.0	1208.2	1233.8	1321.0	1367.2	1405.7
25°	1305.6	1305.6	1264.6	1203.0	1162.0	1156.9	1262.0	1290.2	1392.8	1449.3	1472.4
27.5°	1526.2	1528.8	1462.1	1380.0	1300.5	1262.0	1339.0	1367.2	1482.6	1541.6	1549.3
30°	1721.2	1723.7	1657.0	1580.1	1482.6	1398.0	1441.6	1472.4	1605.7	1651.9	1626.3
32.5°	1916.1	1918.7	1872.5	1767.3	1664.7	1559.6	1572.4	1590.4	1726.3	1769.9	1728.9
35°	2085.4	2093.1	2046.9	1967.4	1859.7	1764.8	1741.7	1744.3	1867.4	1895.6	1841.7
37.5°	2257.3	2257.3	2229.1	2154.7	2062.3	1957.2	1926.4	1934.1	2044.4	2072.6	1995.6
40°	2475.3	2485.6	2470.2	2377.8	2272.7	2185.5	2154.7	2164.9	2285.5	2270.1	2188.0
42.5°	2739.5	2762.6	2737.0	2636.9	2524.0	2426.6	2426.6	2426.6	2529.2	2531.7	2408.6
45°	3078.1	3078.1	3052.5	2965.2	2816.5	2719.0	2685.7	2693.3	2783.1	2793.4	2649.7
47.5°	3360.3	3385.9	3357.7	3293.6	3175.6	3083.2	2978.1	2965.2	3039.6	3039.6	2916.5
50°	3588.6	3634.7	3611.6	3639.9	3555.2	3509.0	3293.6	3257.7	3283.3	3309.0	3173.0
52.5°	3778.4	3814.3	3806.6	3888.7	3929.7	3955.4	3614.2	3557.8	3578.3	3575.7	3452.6
55°	3791.2	3804.0	3919.5	4104.1	4265.7	4386.3	3937.4	3875.9	3855.3	3845.1	3750.2
57.5°	3716.8	3724.5	3955.4	4173.4	4524.8	4663.3	4242.7	4181.1	4152.9	4117.0	4078.5
60°	3537.3	3575.7	3878.4	4214.4	4678.7	4878.8	4527.4	4463.3	4442.7	4365.8	4453.0
62.5°	3309.0	3326.9	3629.6	4129.8	4699.2	4971.1	4827.5	4789.0	4724.9	4614.6	4786.5
65°	2985.8	2983.2	3250.0	3881.0	4594.1	5017.3	5081.4	5060.9	4981.4	4791.6	5084.0
67.5°	2452.2	2511.2	2772.9	3439.8	4340.1	5063.5	5340.5	5314.9	5189.2	4950.6	5225.1
70°	1870.0	1905.9	2203.4	2778.0	3834.8	4937.8	5594.5	5602.2	5373.9	4984.0	5163.5
72.5°	1192.8	1254.3	1490.3	2023.9	3070.4	4471.0	5745.8	5781.7	5476.5	4937.8	4781.3
73°	1092.7	1097.9	1328.7	1872.5	2831.9	4304.2	5735.5	5792.0	5486.7	4891.6	4676.2
75°	651.5	679.7	818.3	1244.1	2021.3	3457.7	5458.5	5571.4	5432.9	4686.4	4099.0
77.5°	305.2	325.8	402.7	656.7	1100.4	2080.3	4588.9	4722.3	4814.7	4101.6	3124.3
80°	161.6	164.2	197.5	330.9	590.0	856.7	3198.7	3419.3	3550.1	3088.4	2100.8
82.5°	135.9	135.9	153.9	212.9	377.1	333.5	1318.5	1569.8	1923.8	1521.1	826.0
85°	110.3	112.9	153.9	159.0	269.3	171.9	315.5	395.0	746.4	672.1	92.3
87.5°	35.9	41.0	87.2	112.9	143.6	66.7	79.5	87.2	87.2	128.3	30.8
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°	1054.3	1054.3	1054.3	1054.3	1054.3	1054.3	1054.3	1054.3	1054.3	1054.3	1054.3
2.5°	1059.4	1059.4	1061.9	1064.5	1069.6	1069.6	1074.8	1077.3	1082.5	1085.0	1077.3
5°	1069.6	1074.8	1079.9	1095.3	1113.2	1128.6	1144.0	1156.9	1169.7	1177.4	1174.8
7.5°	1097.9	1105.6	1126.1	1154.3	1190.2	1213.3	1236.4	1259.5	1269.7	1274.9	1274.9
10°	1136.3	1151.7	1190.2	1236.4	1277.4	1313.3	1331.3	1346.7	1351.8	1356.9	1351.8
12.5°	1190.2	1210.7	1269.7	1328.7	1374.9	1392.8	1390.3	1369.8	1341.5	1336.4	1331.3
15°	1259.5	1285.1	1351.8	1421.1	1457.0	1433.9	1374.9	1354.4	1349.2	1364.6	1359.5
17.5°	1318.5	1349.2	1431.3	1503.1	1495.4	1415.9	1398.0	1408.2	1403.1	1405.7	1405.7
20°	1374.9	1418.5	1505.7	1554.4	1487.8	1436.5	1421.1	1408.2	1392.8	1398.0	1392.8
22.5°	1446.7	1477.5	1577.5	1580.1	1477.5	1436.5	1403.1	1377.5	1372.3	1374.9	1377.5
25°	1503.1	1551.9	1639.1	1562.1	1477.5	1395.4	1349.2	1344.1	1346.7	1362.1	1356.9
27.5°	1580.1	1628.8	1687.8	1551.9	1415.9	1328.7	1310.8	1308.2	1290.2	1295.4	1295.4
30°	1651.9	1710.9	1713.5	1551.9	1339.0	1272.3	1246.6	1200.5	1162.0	1169.7	1167.1
32.5°	1749.4	1800.7	1718.6	1490.3	1251.8	1197.9	1128.6	1056.8	1038.9	1049.1	1051.7
35°	1862.3	1903.3	1723.7	1387.7	1164.6	1092.7	967.0	926.0	923.4	931.1	938.8
37.5°	2011.0	2034.1	1762.2	1269.7	1079.9	928.6	831.1	820.8	797.7	782.4	784.9
40°	2193.2	2164.9	1836.6	1164.6	979.9	779.8	738.7	710.5	666.9	623.3	631.0
42.5°	2395.8	2316.3	1859.7	1079.9	843.9	687.4	649.0	605.4	551.5	505.3	502.8
45°	2613.8	2485.6	1839.2	1013.2	708.0	618.2	577.1	525.8	461.7	423.2	423.2
47.5°	2872.9	2647.2	1775.0	959.3	613.1	556.6	505.3	454.0	410.4	374.5	374.5
50°	3157.6	2834.4	1728.9	864.4	546.4	497.6	446.3	405.3	371.9	343.7	343.7
52.5°	3457.7	3011.4	1690.4	725.9	487.4	443.8	407.8	374.5	346.3	310.4	305.2
55°	3763.0	3180.7	1708.4	592.5	433.5	405.3	382.2	348.9	338.6	330.9	325.8
57.5°	4081.1	3365.4	1752.0	484.8	387.3	384.8	374.5	397.6	420.7	405.3	397.6
60°	4329.9	3509.0	1757.1	407.8	359.1	405.3	456.6	464.3	402.7	366.8	364.2
62.5°	4527.4	3645.0	1636.5	354.0	366.8	477.1	487.4	410.4	348.9	333.5	333.5
65°	4630.0	3693.7	1315.9	323.2	382.2	456.6	441.2	369.4	325.8	323.2	323.2
67.5°	4578.7	3655.3	920.9	289.9	338.6	395.0	395.0	338.6	300.1	312.9	307.8
70°	4332.4	3465.4	607.9	261.6	297.6	356.5	366.8	315.5	279.6	287.3	279.6
72.5°	3819.4	3126.8	400.2	230.9	256.5	315.5	341.2	289.9	256.5	253.9	246.2
73°	3719.4	2998.6	377.1	225.7	248.8	305.2	333.5	284.7	251.4	243.7	238.6
75°	3155.1	2501.0	284.7	202.6	220.6	274.5	310.4	266.8	230.9	220.6	215.5
77.5°	2298.3	1734.0	212.9	171.9	184.7	238.6	274.5	243.7	205.2	192.4	189.8
80°	1433.9	944.0	159.0	138.5	146.2	200.1	241.1	218.0	177.0	161.6	159.0
82.5°	561.8	307.8	110.3	102.6	107.7	151.3	202.6	189.8	148.8	135.9	128.3
85°	92.3	105.2	71.8	69.3	69.3	107.7	153.9	146.2	100.0	87.2	77.0
87.5°	25.7	48.7	28.2	25.7	25.7	46.2	84.6	66.7	41.0	33.3	30.8
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)