

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: P594220

Luminaire Tested: **ISC-PA1D-735-U-T2U-HSS**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P594220  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/22/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: ISC-PA1D-735-U-T2U-HSS  
Description: IMPACT ELITE LED CYLINDER LUMINAIRE  
(1) 70 CRI, 3500K, 800mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS  
WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5838 lumens  
Efficiency: N/A  
Efficacy: 92.7 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

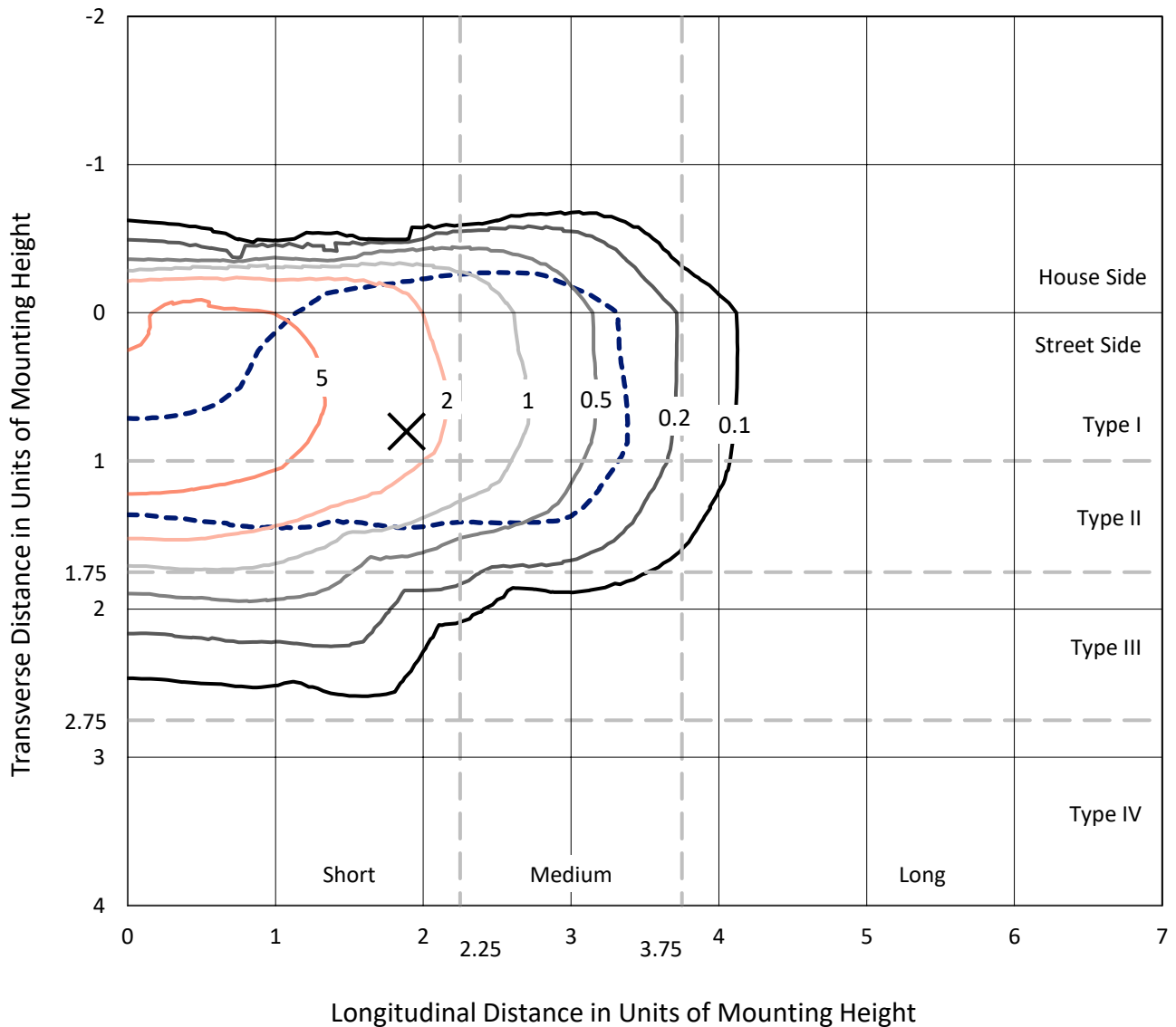
Input Watts (W): 63  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

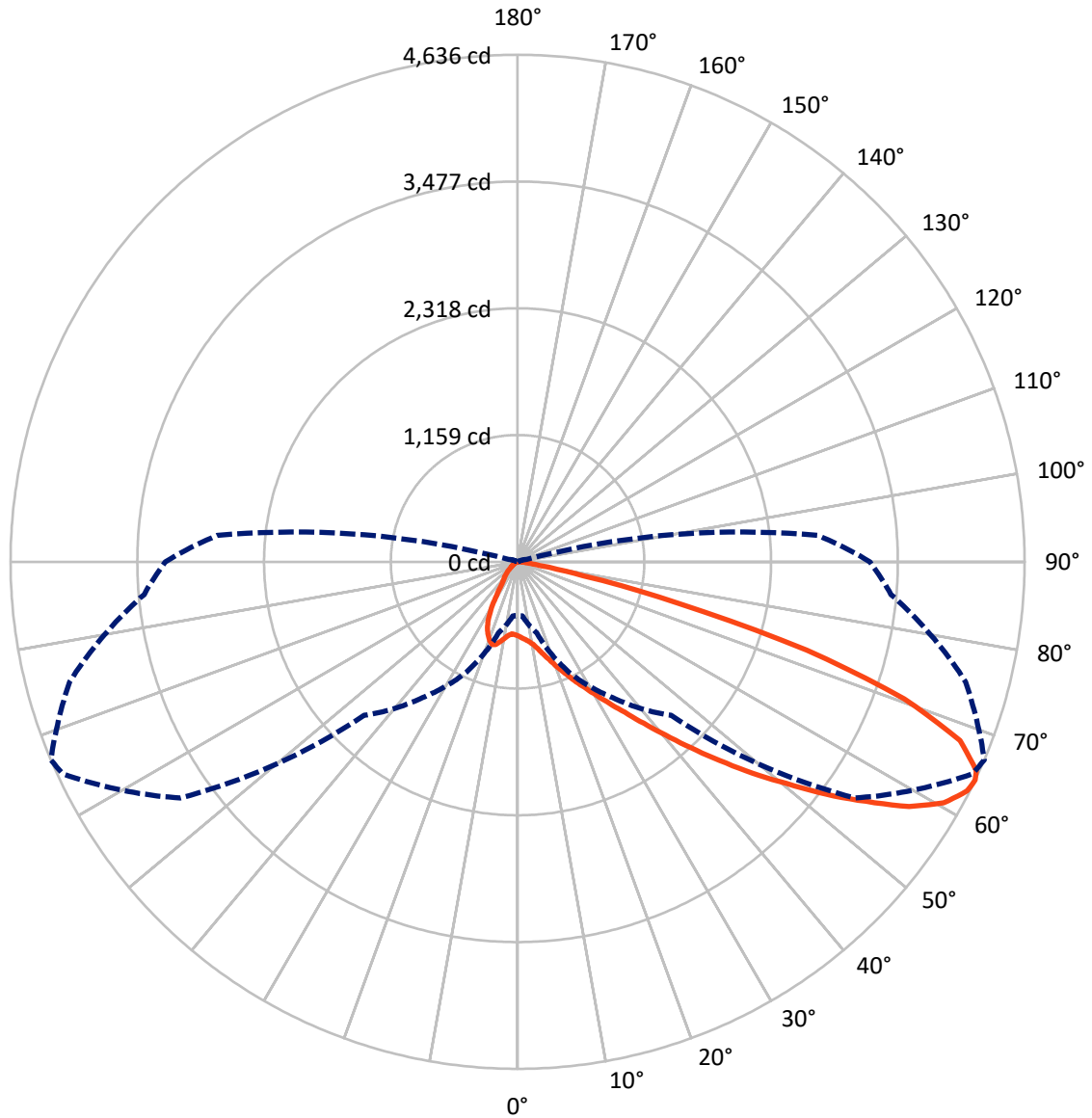
✕ Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral      - - - Horizontal Cone Through 64-Deg Vertical

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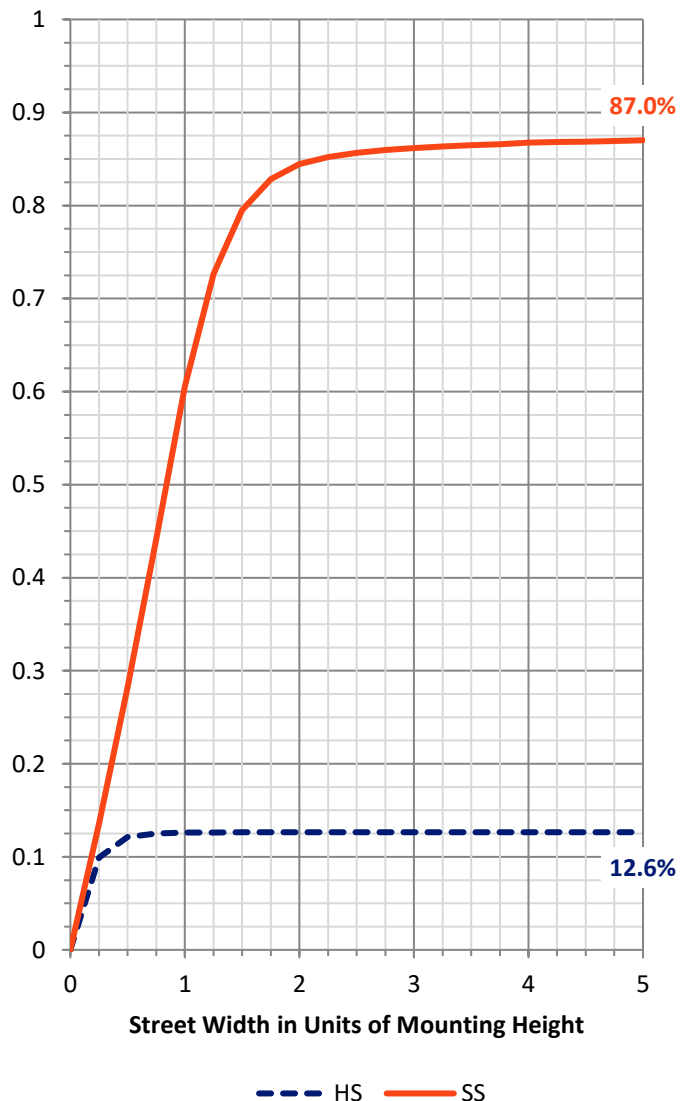
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	746.8	0.0	746.8
	% Fixture	12.8	0.0	12.8
<b>Street Side</b>	Lumens	5091.2	0.0	5091.2
	% Fixture	87.2	0.0	87.2
<b>Total</b>	Lumens	5838.0	0.0	5838.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	64.3	1.1
10°-20°	189.9	3.3
20°-30°	344.6	5.9
30°-40°	660.1	11.3
40°-50°	1216.7	20.8
50°-60°	1571.4	26.9
60°-70°	1287.2	22.0
70°-80°	473.2	8.1
80°-90°	30.5	0.5
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°	5838.0	100.0
0°-180°	5838.0	100.0

**Coefficient of Utilization**

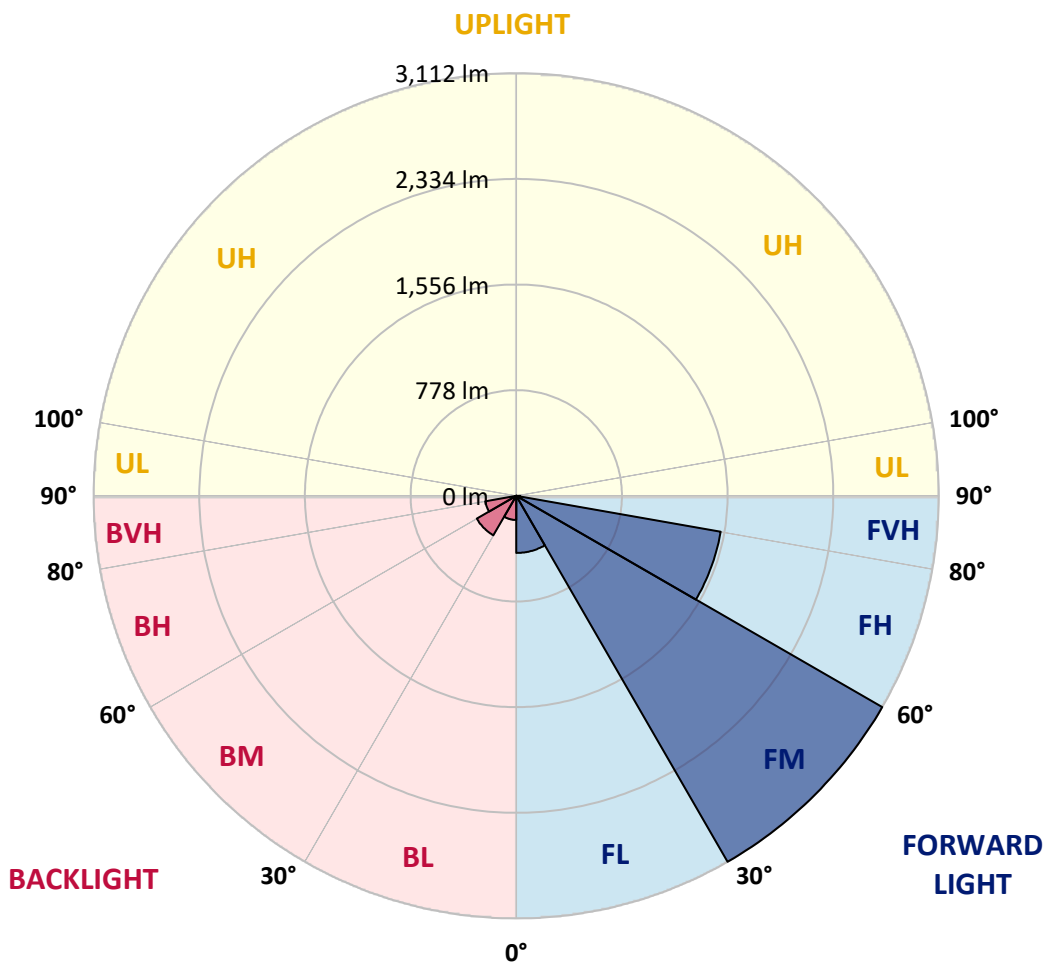


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	420.9	7.2			
FM (30°-60°)	3112.5	53.3			
FH (60°-80°)	1528.6	26.2			G1/1800
FVH (80°-90°)	29.1	0.5			G1/100
BL (0°-30°)	178.0	3.0	B1/500		
BM (30°-60°)	335.8	5.8	B1/1000		
BH (60°-80°)	231.7	4.0	B1/500		G1/500
BVH (80°-90°)	1.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	678.3	678.3	678.3	678.3	678.3	678.3	678.3	678.3	678.3	678.3	678.3
2.5°	702.4	702.4	706.4	704.4	704.4	700.4	694.4	696.4	694.4	692.4	686.4
5°	690.4	692.4	694.4	698.4	706.4	710.5	710.5	712.5	712.5	710.5	702.4
7.5°	684.4	688.4	692.4	696.4	706.4	712.5	722.5	734.5	734.5	736.5	728.5
10°	706.4	710.5	716.5	722.5	732.5	742.6	750.6	764.6	764.6	768.7	766.7
12.5°	752.6	752.6	754.6	758.6	772.7	784.7	798.8	810.8	812.8	814.8	808.8
15°	808.8	808.8	810.8	810.8	818.8	836.9	863.0	875.0	873.0	871.0	859.0
17.5°	873.0	873.0	873.0	875.0	879.0	889.1	919.2	943.3	941.3	939.2	915.2
20°	933.2	937.2	941.3	943.3	947.3	955.3	987.4	1015.5	1021.5	1013.5	971.4
22.5°	1001.5	1003.5	1005.5	1011.5	1021.5	1025.5	1057.7	1099.8	1105.8	1095.8	1039.6
25°	1069.7	1073.7	1079.7	1087.8	1097.8	1117.9	1139.9	1196.1	1202.2	1190.1	1113.9
27.5°	1220.2	1218.2	1200.2	1186.1	1188.1	1202.2	1232.3	1292.5	1298.5	1286.5	1188.1
30°	1477.1	1453.0	1418.9	1356.7	1296.5	1302.5	1344.7	1402.9	1412.9	1396.8	1270.4
32.5°	1842.4	1818.3	1734.0	1597.5	1465.1	1420.9	1475.1	1531.3	1543.3	1525.3	1366.7
35°	2197.6	2191.6	2111.3	1946.7	1722.0	1599.5	1613.6	1685.8	1689.8	1667.8	1487.1
37.5°	2637.1	2615.0	2504.7	2320.0	2055.1	1836.4	1796.2	1864.5	1874.5	1848.4	1633.7
40°	2928.1	2920.1	2853.9	2723.4	2438.4	2163.5	2019.0	2085.2	2083.2	2045.1	1802.2
42.5°	3096.7	3100.7	3096.7	3034.5	2871.9	2556.8	2314.0	2318.0	2324.0	2283.9	1996.9
45°	3211.1	3211.1	3217.1	3267.3	3205.1	3026.5	2673.2	2582.9	2591.0	2528.7	2199.6
47.5°	3209.1	3221.1	3253.3	3369.7	3453.9	3464.0	3122.8	2892.0	2888.0	2793.7	2408.3
50°	2992.4	2984.3	3116.8	3377.7	3630.6	3825.2	3548.3	3219.1	3185.0	3068.6	2625.1
52.5°	2504.7	2530.8	2751.5	3134.8	3672.7	4070.1	3915.5	3576.4	3532.2	3341.6	2815.7
55°	2079.2	2107.3	2322.0	2697.3	3443.9	4156.4	4162.4	3955.7	3867.4	3578.4	3012.4
57.5°	1561.4	1615.6	1932.7	2285.9	2942.2	3941.6	4250.7	4318.9	4222.6	3807.2	3173.0
60°	997.5	1029.6	1384.8	1820.3	2384.2	3379.7	4232.6	4529.7	4477.5	4015.9	3307.4
62.5°	652.3	670.3	915.2	1370.7	1816.3	2546.8	4017.9	4614.0	4614.0	4156.4	3407.8
64°	491.7	495.7	670.3	1113.9	1515.2	1984.9	3765.0	4587.9	4636.0	4240.7	3427.9
65°	389.3	391.4	523.8	925.2	1360.7	1627.6	3544.3	4531.7	4609.9	4272.8	3439.9
67.5°	272.9	279.0	339.2	533.8	975.4	939.2	2627.1	4266.8	4363.1	4282.8	3423.8
70°	236.8	244.8	285.0	349.2	696.4	545.9	1396.8	3636.6	3751.0	3989.8	3187.0
72.5°	180.6	190.7	238.8	295.0	489.7	369.3	539.9	2582.9	2763.6	3084.7	2631.1
75°	130.5	134.5	176.6	240.8	343.2	285.0	232.8	1332.6	1515.2	1820.3	1635.7
77.5°	82.3	88.3	120.4	180.6	307.1	216.7	138.5	485.7	612.1	792.7	714.5
80°	48.2	50.2	72.2	124.4	206.7	160.6	88.3	172.6	208.7	295.0	190.7
82.5°	28.1	30.1	46.2	84.3	134.5	124.4	56.2	88.3	98.3	112.4	40.1
85°	10.0	10.0	32.1	50.2	72.2	62.2	32.1	46.2	50.2	62.2	12.0
87.5°	2.0	2.0	16.1	26.1	26.1	10.0	16.1	20.1	24.1	34.1	4.0
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°	678.3	678.3	678.3	678.3	678.3	678.3	678.3	678.3	678.3	678.3	678.3
2.5°	684.4	678.3	672.3	664.3	658.3	646.2	640.2	632.2	630.2	626.2	624.2
5°	700.4	690.4	676.3	656.3	644.2	626.2	614.1	602.1	600.1	596.1	594.1
7.5°	722.5	712.5	694.4	672.3	652.3	634.2	620.1	602.1	584.0	570.0	570.0
10°	758.6	746.6	722.5	702.4	678.3	640.2	574.0	513.8	475.6	451.6	443.5
12.5°	802.8	786.7	760.6	736.5	690.4	570.0	467.6	389.3	325.1	295.0	289.0
15°	848.9	834.9	808.8	772.7	634.2	475.6	341.2	220.8	158.5	130.5	134.5
17.5°	899.1	879.0	848.9	776.7	557.9	355.2	182.6	112.4	96.3	92.3	92.3
20°	951.3	925.2	895.1	732.5	459.6	204.7	104.4	84.3	78.3	72.2	74.3
22.5°	1007.5	975.4	929.2	666.3	329.1	110.4	80.3	68.2	60.2	58.2	58.2
25°	1067.7	1021.5	963.3	590.0	190.7	84.3	66.2	54.2	48.2	46.2	44.2
27.5°	1131.9	1073.7	971.4	489.7	108.4	70.2	52.2	42.1	36.1	34.1	34.1
30°	1190.1	1125.9	953.3	363.3	82.3	58.2	42.1	32.1	28.1	28.1	28.1
32.5°	1268.4	1184.1	897.1	226.8	66.2	46.2	32.1	26.1	22.1	22.1	22.1
35°	1370.7	1270.4	840.9	120.4	54.2	38.1	26.1	20.1	18.1	18.1	18.1
37.5°	1511.2	1384.8	790.7	76.3	44.2	30.1	20.1	16.1	14.0	14.0	14.0
40°	1655.7	1521.3	720.5	58.2	36.1	24.1	16.1	12.0	10.0	10.0	12.0
42.5°	1836.4	1679.8	640.2	50.2	30.1	20.1	12.0	8.0	6.0	8.0	8.0
45°	2019.0	1846.4	527.8	42.1	26.1	16.1	8.0	4.0	4.0	6.0	6.0
47.5°	2207.6	2023.0	409.4	36.1	22.1	12.0	6.0	2.0	2.0	4.0	4.0
50°	2402.3	2197.6	305.1	32.1	18.1	10.0	4.0	2.0	0.0	2.0	2.0
52.5°	2597.0	2366.2	236.8	28.1	16.1	8.0	2.0	0.0	0.0	0.0	2.0
55°	2777.6	2518.7	188.7	24.1	14.0	6.0	2.0	0.0	0.0	0.0	0.0
57.5°	2930.1	2631.1	150.5	22.1	12.0	4.0	2.0	0.0	0.0	0.0	0.0
60°	3074.6	2719.4	116.4	18.1	10.0	4.0	2.0	0.0	0.0	0.0	0.0
62.5°	3177.0	2753.5	94.3	16.1	8.0	4.0	0.0	0.0	0.0	0.0	0.0
64°	3221.1	2757.5	82.3	14.0	8.0	4.0	2.0	0.0	0.0	0.0	0.0
65°	3247.2	2745.5	76.3	14.0	8.0	4.0	2.0	0.0	0.0	0.0	0.0
67.5°	3253.3	2679.3	58.2	12.0	6.0	2.0	2.0	0.0	0.0	0.0	0.0
70°	3076.6	2448.5	42.1	8.0	4.0	2.0	0.0	0.0	0.0	0.0	0.0
72.5°	2570.9	1870.5	28.1	6.0	4.0	2.0	0.0	0.0	0.0	0.0	0.0
75°	1605.6	808.8	16.1	6.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0
77.5°	664.3	244.8	10.0	4.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0
80°	152.5	58.2	4.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0
82.5°	36.1	10.0	2.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0
85°	8.0	2.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.0	2.0	2.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0
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)