

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: P594426

Luminaire Tested: **ISC-PA1F-830-U-T2R**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594426
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-1)
Test Lab: INNOVATION CENTER
Issue Date: 3/22/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: ISC-PA1F-830-U-T2R
Description: IMPACT ELITE LED CYLINDER LUMINAIRE
(1) 80 CRI, 3000K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9337 lumens
Efficiency: N/A
Efficacy: 98.9 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

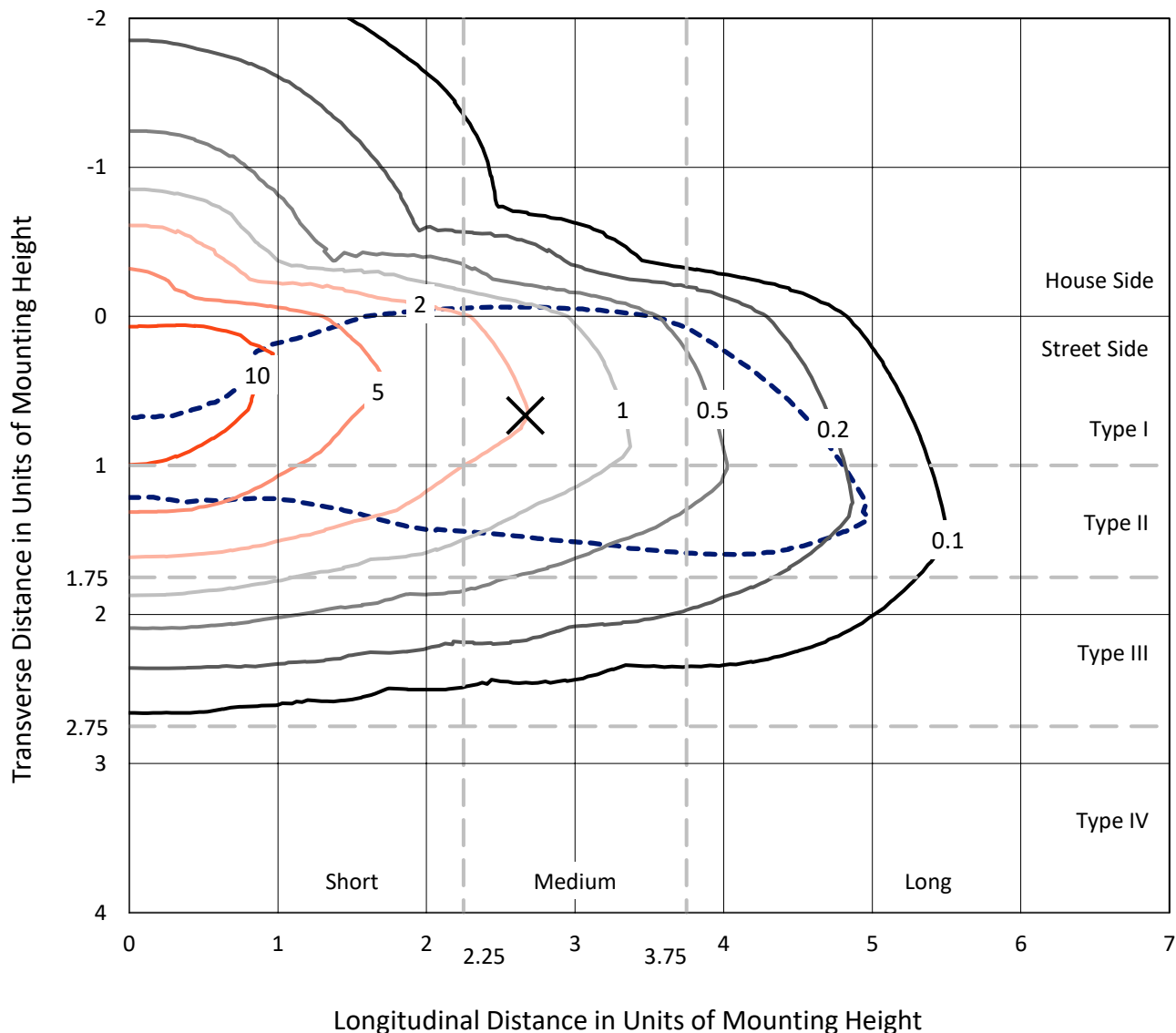
Input Watts (W): 94.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P594426
 CATALOG NUMBER: ISC-PA1F-830-U-T2R

Iso-Footcandle Lines of Horizontal Illumination

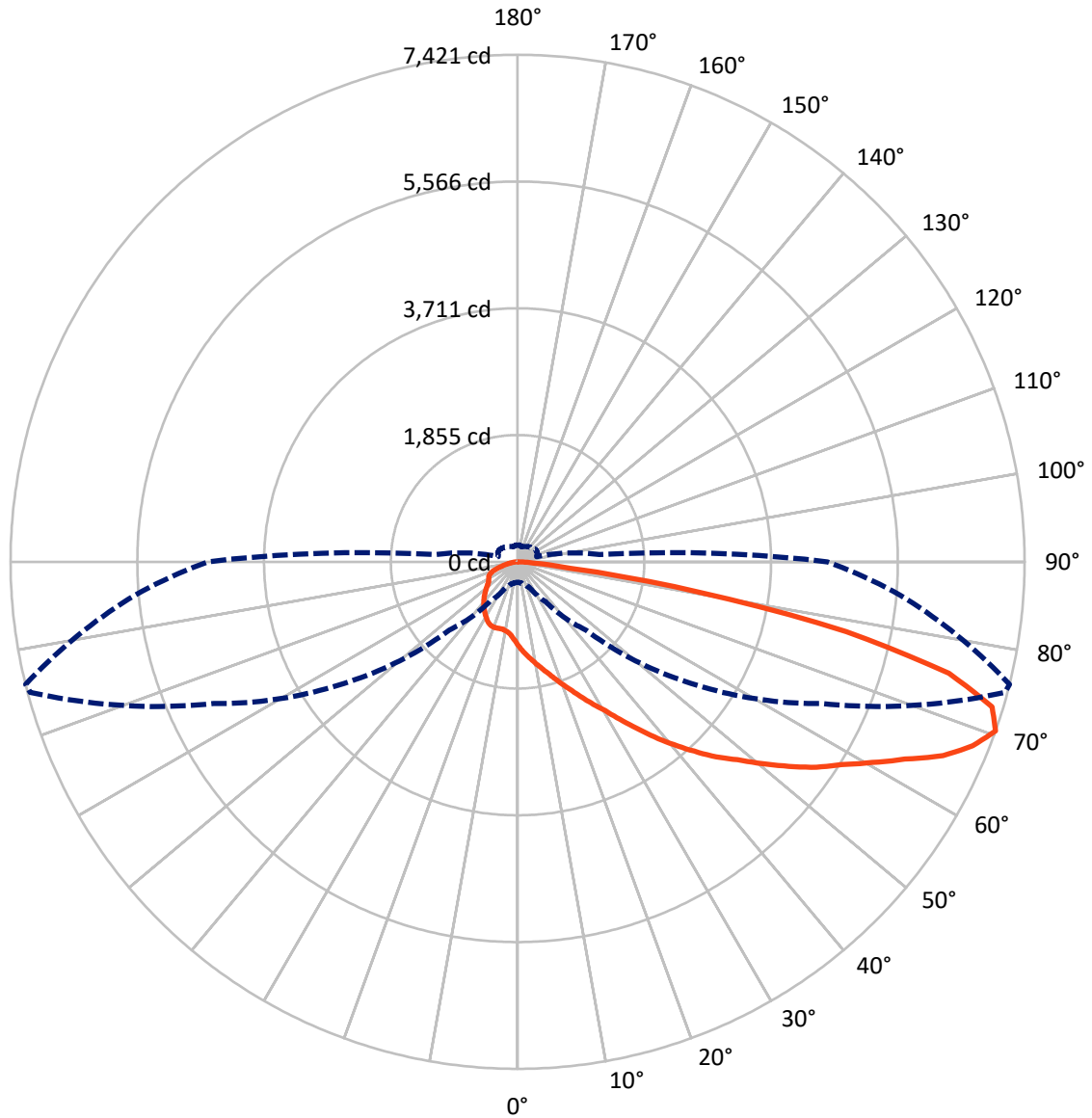
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 14.7 fc
 Type II - Medium - N/A

REPORT NUMBER: P594426
CATALOG NUMBER: ISC-PA1F-830-U-T2R

Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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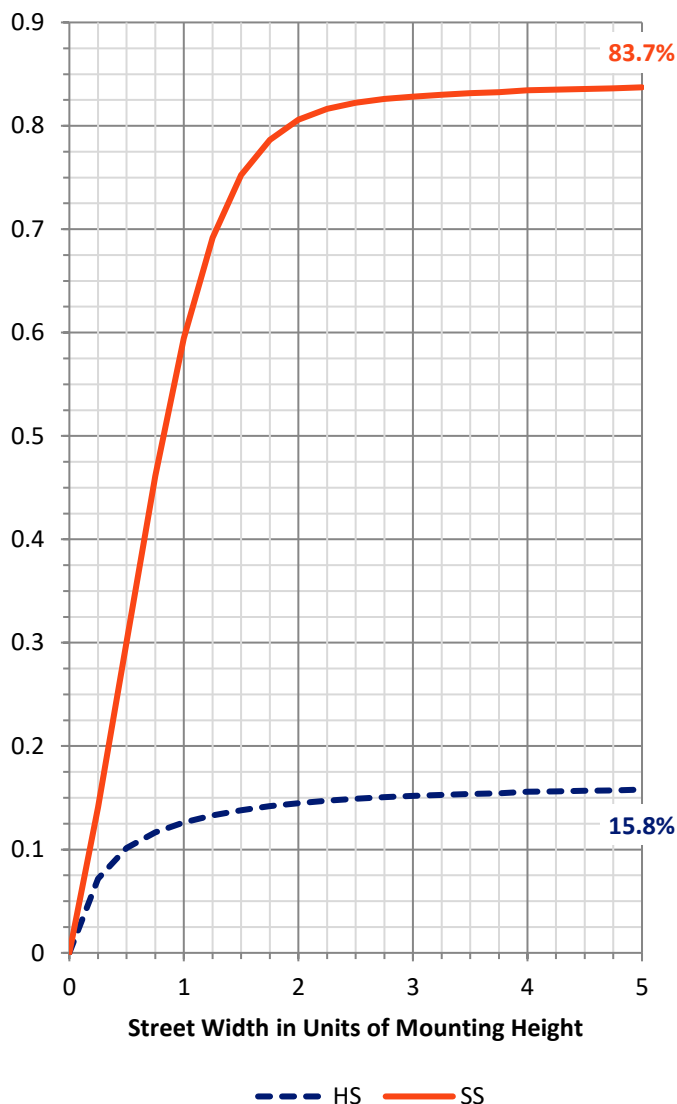
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1497.6	0.0	1497.6
	% Fixture	16.0	0.0	16.0
Street Side	Lumens	7839.4	0.0	7839.4
	% Fixture	84.0	0.0	84.0
Total	Lumens	9337.0	0.0	9337.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.4	1.3
10°-20°	393.9	4.2
20°-30°	726.0	7.8
30°-40°	1216.4	13.0
40°-50°	1728.4	18.5
50°-60°	1995.5	21.4
60°-70°	1834.4	19.6
70°-80°	1156.7	12.4
80°-90°	166.4	1.8
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°	9337.0	100.0
0°-180°	9337.0	100.0

Coefficient of Utilization

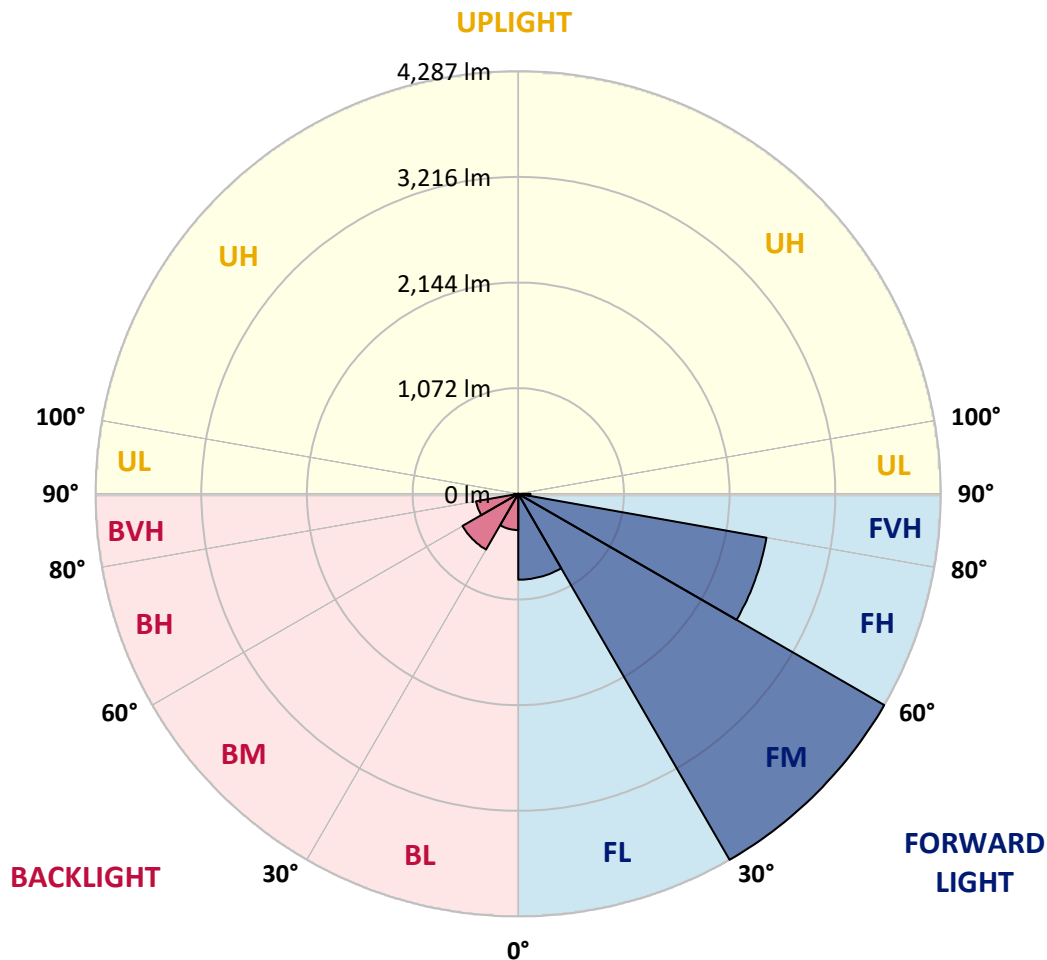


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 CATALOG NUMBER: ISC-PA1F-830-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	871.7	9.3			
FM (30°-60°)	4287.3	45.9			
FH (60°-80°)	2557.1	27.4			G2/5000
FVH (80°-90°)	123.3	1.3			G2/225
BL (0°-30°)	367.6	3.9	B1/500		
BM (30°-60°)	652.9	7.0	B1/1000		
BH (60°-80°)	434.0	4.6	B1/500		G1/500
BVH (80°-90°)	43.0	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type II Medium





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CATALOG NUMBER: ISC-PA1F-830-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1224.9	1224.9	1224.9	1224.9	1224.9	1224.9	1224.9	1224.9	1224.9	1224.9	1224.9
2.5°	1474.3	1472.1	1465.4	1454.1	1445.1	1418.2	1382.2	1350.7	1303.5	1299.0	1251.8
5°	1606.9	1598.0	1598.0	1586.7	1575.5	1546.3	1501.3	1445.1	1377.7	1373.2	1283.3
7.5°	1669.9	1672.1	1667.6	1658.6	1660.9	1636.2	1595.7	1539.5	1447.4	1442.9	1326.0
10°	1759.8	1757.5	1748.5	1741.8	1739.5	1717.1	1681.1	1629.4	1532.8	1523.8	1375.5
12.5°	1847.4	1840.7	1842.9	1840.7	1836.2	1813.7	1780.0	1728.3	1609.2	1604.7	1436.1
15°	1896.9	1894.6	1910.4	1914.9	1932.8	1912.6	1883.4	1825.0	1717.1	1699.1	1508.1
17.5°	1928.3	1926.1	1941.8	1977.8	2011.5	2011.5	2002.5	1939.6	1820.5	1807.0	1589.0
20°	1982.3	1991.3	2018.2	2047.5	2096.9	2105.9	2103.6	2076.7	1939.6	1926.1	1678.9
22.5°	2090.2	2085.7	2108.1	2153.1	2198.0	2211.5	2213.8	2213.8	2076.7	2051.9	1771.0
25°	2321.6	2310.4	2292.4	2287.9	2341.9	2339.6	2332.9	2348.6	2220.5	2202.5	1876.6
27.5°	2762.1	2737.4	2667.8	2528.4	2496.9	2508.2	2474.5	2476.7	2384.6	2362.1	1966.5
30°	3180.2	3168.9	3103.8	2935.2	2757.7	2694.7	2636.3	2611.6	2566.6	2528.4	2063.2
32.5°	3557.8	3560.0	3481.3	3297.0	3115.0	2917.2	2816.1	2764.4	2782.4	2748.7	2195.8
35°	3814.0	3793.7	3744.3	3620.7	3422.9	3234.1	3040.8	2926.2	3022.9	2984.6	2328.4
37.5°	3964.5	3948.8	3908.4	3820.7	3721.8	3539.8	3294.8	3119.5	3308.3	3252.1	2496.9
40°	4041.0	4018.5	3978.0	3942.1	3894.9	3796.0	3580.2	3339.8	3569.0	3519.5	2663.3
42.5°	4050.0	4034.2	4011.7	3993.8	4009.5	3996.0	3858.9	3596.0	3843.2	3789.2	2854.3
45°	4043.2	4054.4	4027.5	3996.0	4027.5	4142.1	4142.1	3852.2	4115.1	4074.7	3036.3
47.5°	4047.7	4036.5	4027.5	4018.5	4023.0	4180.3	4337.6	4092.7	4375.8	4328.6	3249.9
50°	3861.2	3876.9	3953.3	3987.0	4007.3	4189.3	4495.0	4353.4	4699.5	4641.0	3488.1
52.5°	3267.8	3276.8	3625.2	3876.9	3957.8	4153.3	4605.1	4643.3	5018.6	4973.7	3744.3
55°	2517.2	2564.4	2894.8	3510.6	3845.4	4092.7	4638.8	4832.1	5344.5	5308.5	4002.8
57.5°	2072.2	2078.9	2270.0	2820.6	3490.3	4036.5	4672.5	5005.1	5636.7	5596.2	4272.5
60°	1719.3	1703.6	1820.5	2175.6	2899.2	3811.7	4679.2	5142.2	5976.0	5962.6	4551.1
62.5°	1263.1	1281.1	1393.4	1694.6	2267.7	3355.5	4645.5	5259.1	6380.6	6362.6	4861.3
65°	775.4	797.9	935.0	1211.4	1717.1	2663.3	4425.3	5319.8	6805.4	6845.8	5196.2
67.5°	411.3	427.0	507.9	732.7	1177.7	2029.5	3894.9	5243.4	7165.0	7182.9	5517.6
70°	301.2	303.4	330.4	413.5	710.2	1411.4	3101.5	4910.7	7385.2	7421.2	5623.2
72.5°	263.0	265.2	276.4	296.7	386.6	860.8	2222.8	4330.9	7293.1	7261.6	5445.6
75°	238.2	238.2	247.2	254.0	283.2	476.5	1362.0	3544.3	6589.6	6519.9	4643.3
77.5°	204.5	204.5	213.5	222.5	245.0	307.9	712.5	2627.3	5038.8	4919.7	3175.7
80°	164.1	164.1	175.3	186.5	215.8	231.5	348.4	1757.5	2881.3	2706.0	1445.1
82.5°	112.4	121.4	141.6	155.1	179.8	164.1	204.5	759.6	908.0	786.6	325.9
85°	67.4	71.9	101.1	116.9	134.8	87.7	125.9	292.2	271.9	238.2	74.2
87.5°	6.7	11.2	40.5	47.2	47.2	24.7	53.9	69.7	78.7	80.9	18.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P594426
 CATALOG NUMBER: ISC-PA1F-830-U-T2R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1224.9	1224.9	1224.9	1224.9	1224.9	1224.9	1224.9	1224.9	1224.9	1224.9	1224.9
2.5°	1224.9	1197.9	1146.2	1099.0	1051.8	1020.4	988.9	977.7	961.9	950.7	959.7
5°	1236.1	1179.9	1081.0	997.9	941.7	899.0	878.8	867.5	858.5	856.3	854.0
7.5°	1249.6	1166.4	1033.8	941.7	887.8	867.5	863.0	863.0	863.0	865.3	867.5
10°	1278.8	1170.9	1009.1	910.2	881.0	876.5	878.8	887.8	887.8	890.0	890.0
12.5°	1312.5	1182.2	991.1	905.7	887.8	890.0	892.2	896.7	896.7	903.5	901.2
15°	1362.0	1204.6	988.9	910.2	894.5	890.0	890.0	887.8	887.8	887.8	892.2
17.5°	1424.9	1236.1	991.1	910.2	887.8	878.8	872.0	865.3	856.3	860.8	856.3
20°	1487.8	1274.3	991.1	899.0	869.8	847.3	827.1	815.8	804.6	802.3	804.6
22.5°	1566.5	1319.3	979.9	874.3	831.6	800.1	770.9	755.2	737.2	730.4	725.9
25°	1633.9	1355.2	957.4	838.3	788.9	743.9	705.7	678.7	656.3	651.8	651.8
27.5°	1703.6	1386.7	923.7	793.4	728.2	678.7	636.0	602.3	579.8	577.6	575.4
30°	1768.8	1413.7	878.8	743.9	674.2	615.8	566.4	537.1	516.9	505.7	498.9
32.5°	1854.2	1449.6	836.1	694.5	611.3	552.9	507.9	483.2	456.2	438.3	431.5
35°	1962.0	1492.3	788.9	640.5	555.1	496.7	469.7	433.8	400.1	379.8	373.1
37.5°	2083.4	1553.0	739.4	584.3	498.9	456.2	440.5	384.3	348.4	341.6	339.4
40°	2234.0	1611.4	683.2	525.9	445.0	433.8	406.8	348.4	330.4	328.1	325.9
42.5°	2384.6	1674.4	629.3	467.5	402.3	406.8	368.6	339.4	323.6	319.1	316.9
45°	2559.9	1737.3	575.4	415.8	368.6	368.6	348.4	330.4	316.9	312.4	312.4
47.5°	2744.2	1800.2	516.9	370.8	343.9	330.4	332.6	319.1	310.2	305.7	303.4
50°	2975.7	1860.9	463.0	339.4	328.1	310.2	316.9	307.9	303.4	298.9	296.7
52.5°	3193.7	1887.9	413.5	321.4	319.1	301.2	303.4	298.9	296.7	289.9	287.7
55°	3407.2	1881.1	375.3	312.4	307.9	298.9	294.4	292.2	289.9	283.2	280.9
57.5°	3645.4	1872.1	350.6	310.2	301.2	292.2	292.2	285.4	276.4	276.4	276.4
60°	3892.6	1842.9	339.4	310.2	298.9	292.2	287.7	280.9	271.9	274.2	271.9
62.5°	4171.3	1786.7	332.6	316.9	301.2	289.9	285.4	276.4	265.2	267.4	265.2
65°	4416.3	1672.1	328.1	323.6	305.7	292.2	280.9	269.7	256.2	258.5	256.2
67.5°	4582.6	1478.8	314.6	328.1	312.4	289.9	276.4	260.7	242.7	251.7	249.5
70°	4535.4	1202.4	289.9	319.1	319.1	292.2	269.7	249.5	229.2	247.2	240.5
72.5°	4169.1	903.5	242.7	287.7	314.6	292.2	256.2	231.5	213.5	224.7	211.3
75°	3422.9	613.6	193.3	229.2	294.4	294.4	245.0	213.5	191.0	184.3	179.8
77.5°	2135.1	382.1	150.6	168.6	247.2	292.2	233.7	191.0	159.6	155.1	150.6
80°	845.1	204.5	119.1	121.4	182.0	267.4	218.0	161.8	128.1	123.6	114.6
82.5°	193.3	103.4	83.2	80.9	112.4	218.0	197.8	128.1	98.9	98.9	83.2
85°	58.4	53.9	53.9	51.7	56.2	112.4	152.8	87.7	67.4	47.2	40.5
87.5°	15.7	22.5	20.2	18.0	18.0	15.7	49.4	22.5	13.5	6.7	4.5
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)