

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: P594282

Luminaire Tested: **ISC-PA1E-727-U-T2R**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594282
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-PA1E-727-U-T2R
Description: IMPACT ELITE LED CYLINDER LUMINAIRE
(1) 70 CRI, 2700K, 1050mA LIGHT ENGINE WITH 24 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8966 lumens
Efficiency: N/A
Efficacy: 108.8 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

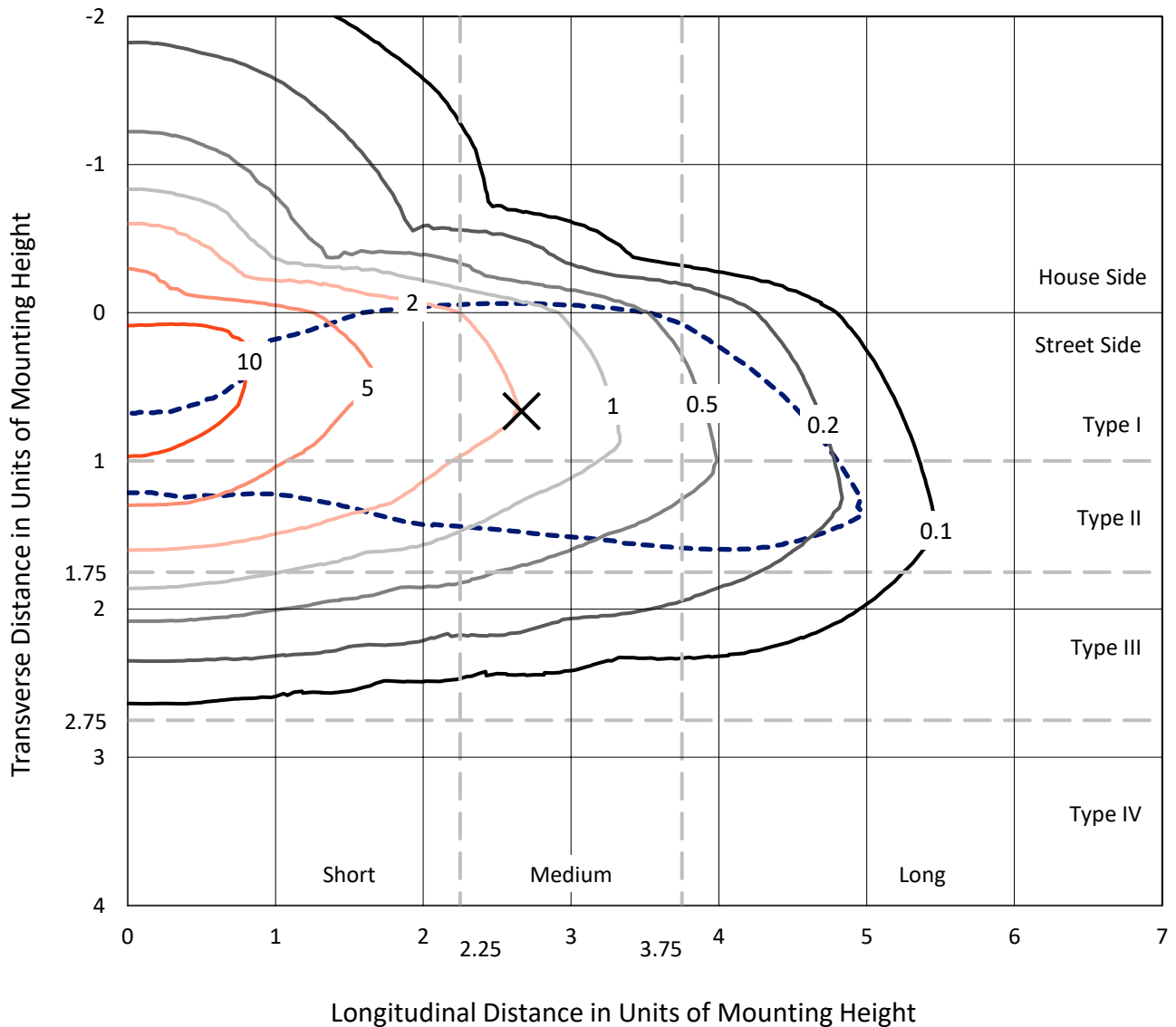
Input Watts (W): 82.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

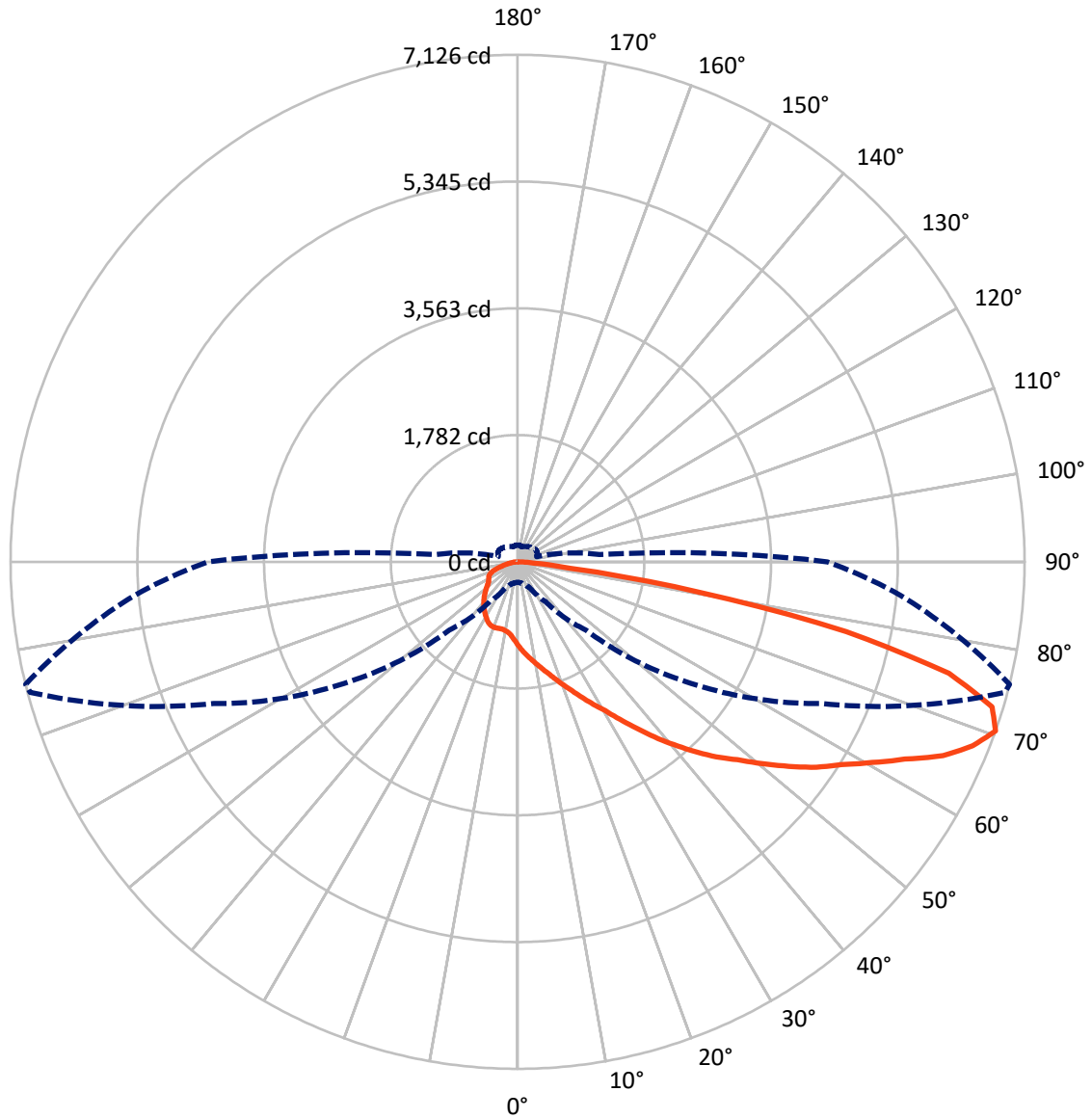
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 14.2 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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

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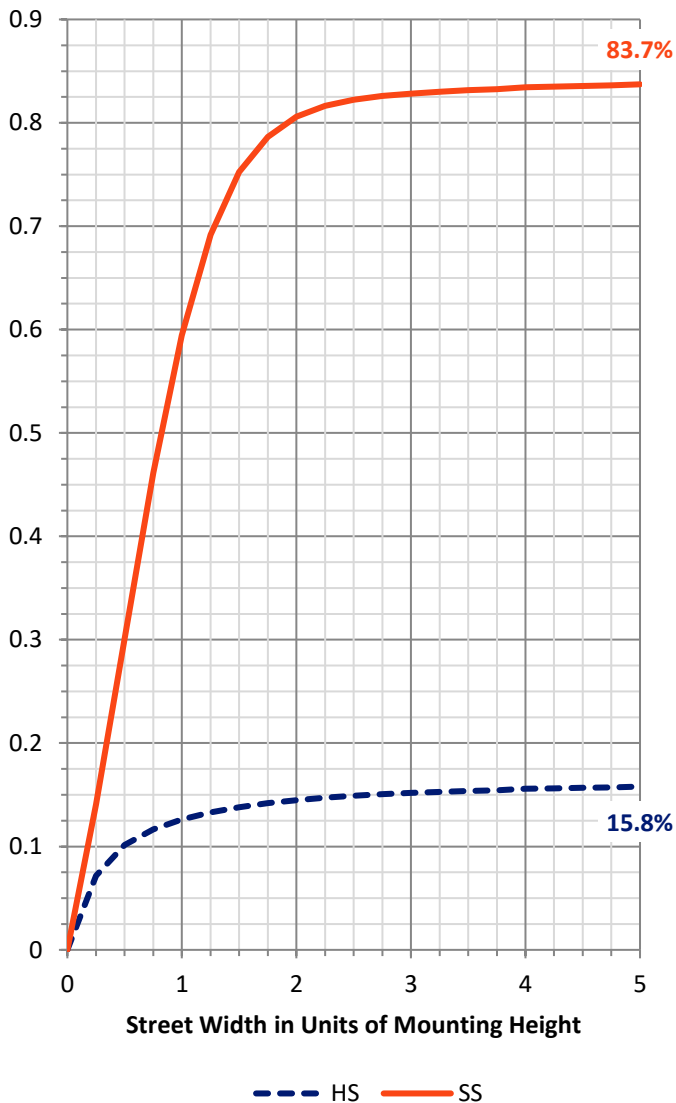
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1438.1	0.0	1438.1
	% Fixture	16.0	0.0	16.0
Street Side	Lumens	7527.9	0.0	7527.9
	% Fixture	84.0	0.0	84.0
Total	Lumens	8966.0	0.0	8966.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.6	1.3
10°-20°	378.3	4.2
20°-30°	697.1	7.8
30°-40°	1168.0	13.0
40°-50°	1659.7	18.5
50°-60°	1916.2	21.4
60°-70°	1761.5	19.6
70°-80°	1110.7	12.4
80°-90°	159.8	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°	8966.0	100.0
0°-180°	8966.0	100.0

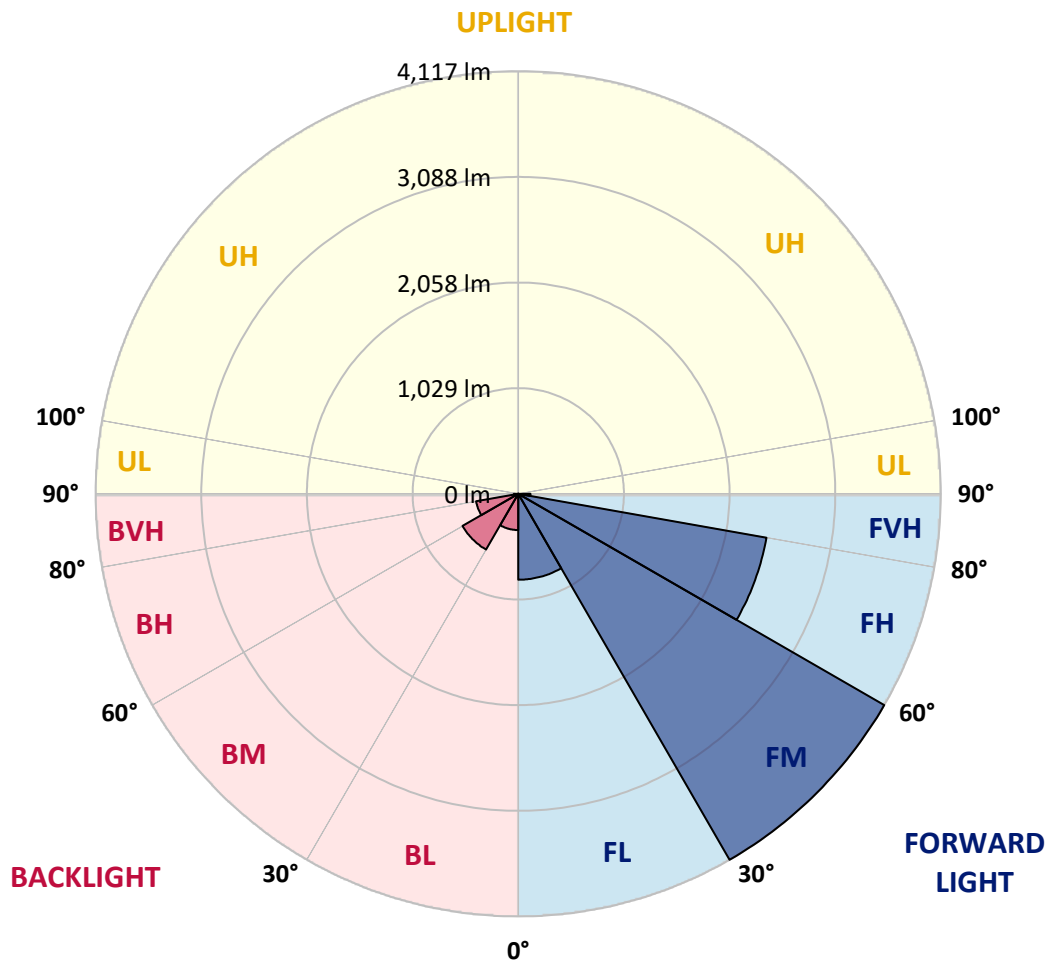


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	837.1	9.3			
FM (30°-60°)	4117.0	45.9			
FH (60°-80°)	2455.4	27.4			G2/5000
FVH (80°-90°)	118.4	1.3			G2/225
BL (0°-30°)	353.0	3.9	B1/500		
BM (30°-60°)	626.9	7.0	B1/1000		
BH (60°-80°)	416.8	4.6	B1/500		G1/500
BVH (80°-90°)	41.3	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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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1176.2	1176.2	1176.2	1176.2	1176.2	1176.2	1176.2	1176.2	1176.2	1176.2	1176.2
2.5°	1415.8	1413.6	1407.1	1396.3	1387.7	1361.8	1327.3	1297.1	1251.7	1247.4	1202.1
5°	1543.1	1534.5	1534.5	1523.7	1512.9	1484.8	1441.7	1387.7	1323.0	1318.6	1232.3
7.5°	1603.5	1605.7	1601.4	1592.7	1594.9	1571.2	1532.3	1478.3	1389.9	1385.5	1273.3
10°	1689.9	1687.7	1679.1	1672.6	1670.4	1648.8	1614.3	1564.7	1471.9	1463.2	1320.8
12.5°	1774.0	1767.5	1769.7	1767.5	1763.2	1741.6	1709.3	1659.6	1545.3	1540.9	1379.1
15°	1821.5	1819.3	1834.4	1838.8	1856.0	1836.6	1808.6	1752.4	1648.8	1631.6	1448.1
17.5°	1851.7	1849.6	1864.7	1899.2	1931.6	1931.6	1922.9	1862.5	1748.1	1735.2	1525.8
20°	1903.5	1912.1	1938.0	1966.1	2013.6	2022.2	2020.1	1994.2	1862.5	1849.6	1612.2
22.5°	2007.1	2002.8	2024.4	2067.5	2110.7	2123.6	2125.8	2125.8	1994.2	1970.4	1700.6
25°	2229.4	2218.6	2201.3	2197.0	2248.8	2246.7	2240.2	2255.3	2132.3	2115.0	1802.1
27.5°	2652.4	2628.7	2561.8	2427.9	2397.7	2408.5	2376.2	2378.3	2289.8	2268.2	1888.4
30°	3053.8	3043.0	2980.4	2818.6	2648.1	2587.7	2531.5	2507.8	2464.6	2427.9	1981.2
32.5°	3416.4	3418.5	3343.0	3166.0	2991.2	2801.3	2704.2	2654.6	2671.8	2639.4	2108.5
35°	3662.4	3643.0	3595.5	3476.8	3286.9	3105.6	2920.0	2809.9	2902.7	2866.1	2235.9
37.5°	3807.0	3791.9	3753.1	3668.9	3573.9	3399.1	3163.9	2995.5	3176.8	3122.9	2397.7
40°	3880.4	3858.8	3820.0	3785.4	3740.1	3645.2	3438.0	3207.0	3427.2	3379.7	2557.4
42.5°	3889.0	3873.9	3852.3	3835.1	3850.2	3837.2	3705.6	3453.1	3690.5	3638.7	2740.9
45°	3882.6	3893.3	3867.4	3837.2	3867.4	3977.5	3977.5	3699.1	3951.6	3912.8	2915.7
47.5°	3886.9	3876.1	3867.4	3858.8	3863.1	4014.2	4165.3	3930.0	4202.0	4156.6	3120.7
50°	3707.7	3722.9	3796.2	3828.6	3848.0	4022.8	4316.4	4180.4	4512.7	4456.6	3349.5
52.5°	3138.0	3146.6	3481.1	3722.9	3800.5	3988.3	4422.1	4458.8	4819.2	4776.0	3595.5
55°	2417.2	2462.5	2779.7	3371.1	3692.6	3930.0	4454.5	4640.1	5132.1	5097.6	3843.7
57.5°	1989.8	1996.3	2179.8	2708.5	3351.6	3876.1	4486.8	4806.3	5412.7	5373.9	4102.7
60°	1651.0	1635.9	1748.1	2089.1	2784.0	3660.3	4493.3	4937.9	5738.6	5725.6	4370.3
62.5°	1212.9	1230.2	1338.1	1627.3	2177.6	3222.2	4460.9	5050.1	6127.1	6109.8	4668.1
65°	744.6	766.2	897.8	1163.3	1648.8	2557.4	4249.4	5108.4	6535.0	6573.8	4989.7
67.5°	394.9	410.1	487.7	703.6	1130.9	1948.8	3740.1	5035.0	6880.3	6897.5	5298.3
70°	289.2	291.4	317.3	397.1	682.0	1355.3	2978.3	4715.6	7091.8	7126.3	5399.8
72.5°	252.5	254.7	265.5	284.9	371.2	826.6	2134.4	4158.8	7003.3	6973.1	5229.3
75°	228.8	228.8	237.4	243.9	271.9	457.5	1307.9	3403.4	6327.8	6260.9	4458.8
77.5°	196.4	196.4	205.0	213.7	235.2	295.7	684.1	2522.9	4838.6	4724.2	3049.5
80°	157.5	157.5	168.3	179.1	207.2	222.3	334.5	1687.7	2766.8	2598.4	1387.7
82.5°	107.9	116.5	136.0	148.9	172.7	157.5	196.4	729.5	871.9	755.4	312.9
85°	64.7	69.1	97.1	112.2	129.5	84.2	120.9	280.6	261.1	228.8	71.2
87.5°	6.5	10.8	38.8	45.3	45.3	23.7	51.8	66.9	75.5	77.7	17.3
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°	1176.2	1176.2	1176.2	1176.2	1176.2	1176.2	1176.2	1176.2	1176.2	1176.2	1176.2
2.5°	1176.2	1150.3	1100.7	1055.3	1010.0	979.8	949.6	938.8	923.7	912.9	921.5
5°	1187.0	1133.0	1038.1	958.2	904.3	863.3	843.8	833.1	824.4	822.3	820.1
7.5°	1199.9	1120.1	992.8	904.3	852.5	833.1	828.7	828.7	828.7	830.9	833.1
10°	1228.0	1124.4	969.0	874.1	846.0	841.7	843.8	852.5	852.5	854.6	854.6
12.5°	1260.4	1135.2	951.8	869.7	852.5	854.6	856.8	861.1	861.1	867.6	865.4
15°	1307.9	1156.8	949.6	874.1	859.0	854.6	854.6	852.5	852.5	852.5	856.8
17.5°	1368.3	1187.0	951.8	874.1	852.5	843.8	837.4	830.9	822.3	826.6	822.3
20°	1428.7	1223.7	951.8	863.3	835.2	813.6	794.2	783.4	772.6	770.5	772.6
22.5°	1504.2	1266.8	941.0	839.5	798.5	768.3	740.3	725.1	707.9	701.4	697.1
25°	1569.0	1301.4	919.4	805.0	757.5	714.4	677.7	651.8	630.2	625.9	625.9
27.5°	1635.9	1331.6	887.0	761.8	699.2	651.8	610.8	578.4	556.8	554.7	552.5
30°	1698.5	1357.5	843.8	714.4	647.5	591.3	543.9	515.8	496.4	485.6	479.1
32.5°	1780.5	1392.0	802.8	666.9	587.0	530.9	487.7	464.0	438.1	420.8	414.4
35°	1884.1	1433.0	757.5	615.1	533.1	477.0	451.1	416.5	384.2	364.7	358.3
37.5°	2000.6	1491.3	710.0	561.1	479.1	438.1	423.0	369.0	334.5	328.0	325.9
40°	2145.2	1547.4	656.1	505.0	427.3	416.5	390.6	334.5	317.3	315.1	312.9
42.5°	2289.8	1607.8	604.3	448.9	386.3	390.6	353.9	325.9	310.8	306.5	304.3
45°	2458.2	1668.3	552.5	399.3	353.9	353.9	334.5	317.3	304.3	300.0	300.0
47.5°	2635.1	1728.7	496.4	356.1	330.2	317.3	319.4	306.5	297.8	293.5	291.4
50°	2857.4	1787.0	444.6	325.9	315.1	297.8	304.3	295.7	291.4	287.0	284.9
52.5°	3066.8	1812.9	397.1	308.6	306.5	289.2	291.4	287.0	284.9	278.4	276.2
55°	3271.8	1806.4	360.4	300.0	295.7	287.0	282.7	280.6	278.4	271.9	269.8
57.5°	3500.6	1797.8	336.7	297.8	289.2	280.6	280.6	274.1	265.5	265.5	265.5
60°	3738.0	1769.7	325.9	297.8	287.0	280.6	276.2	269.8	261.1	263.3	261.1
62.5°	4005.6	1715.7	319.4	304.3	289.2	278.4	274.1	265.5	254.7	256.8	254.7
65°	4240.8	1605.7	315.1	310.8	293.5	280.6	269.8	259.0	246.0	248.2	246.0
67.5°	4400.5	1420.1	302.1	315.1	300.0	278.4	265.5	250.3	233.1	241.7	239.6
70°	4355.2	1154.6	278.4	306.5	306.5	280.6	259.0	239.6	220.1	237.4	230.9
72.5°	4003.4	867.6	233.1	276.2	302.1	280.6	246.0	222.3	205.0	215.8	202.9
75°	3286.9	589.2	185.6	220.1	282.7	282.7	235.2	205.0	183.4	177.0	172.7
77.5°	2050.3	366.9	144.6	161.9	237.4	280.6	224.5	183.4	153.2	148.9	144.6
80°	811.5	196.4	114.4	116.5	174.8	256.8	209.3	155.4	123.0	118.7	110.1
82.5°	185.6	99.3	79.9	77.7	107.9	209.3	189.9	123.0	95.0	95.0	79.9
85°	56.1	51.8	51.8	49.6	54.0	107.9	146.8	84.2	64.7	45.3	38.8
87.5°	15.1	21.6	19.4	17.3	17.3	15.1	47.5	21.6	12.9	6.5	4.3
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)