

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: P594304

Luminaire Tested: **ISC-PA1E-735-U-T3**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594304
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-735-U-T3
Description: IMPACT ELITE LED CYLINDER LUMINAIRE
(1) 70 CRI, 3500K, 1050mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9748 lumens
Efficiency: N/A
Efficacy: 118.3 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

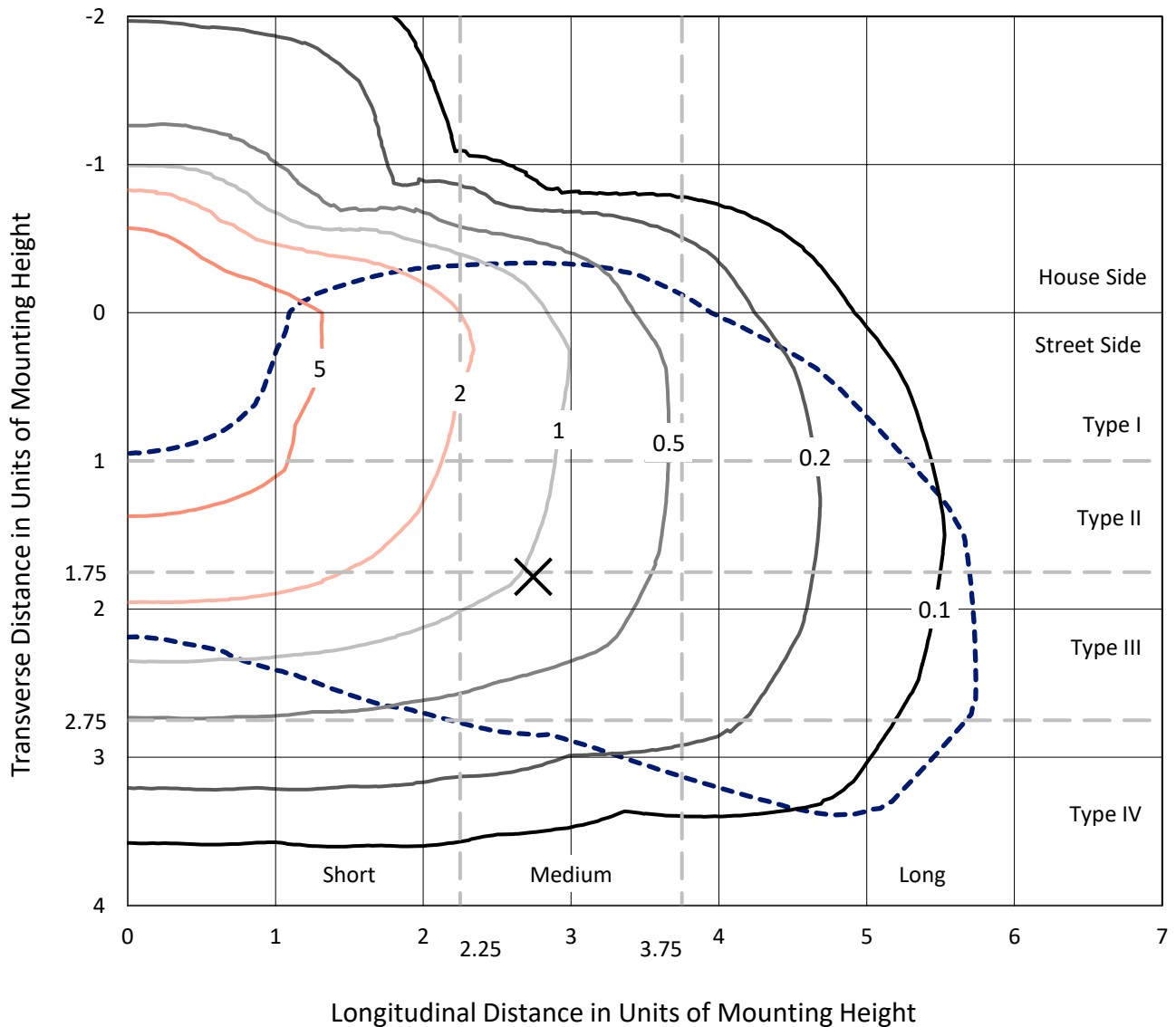
Input Watts (W): 82.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

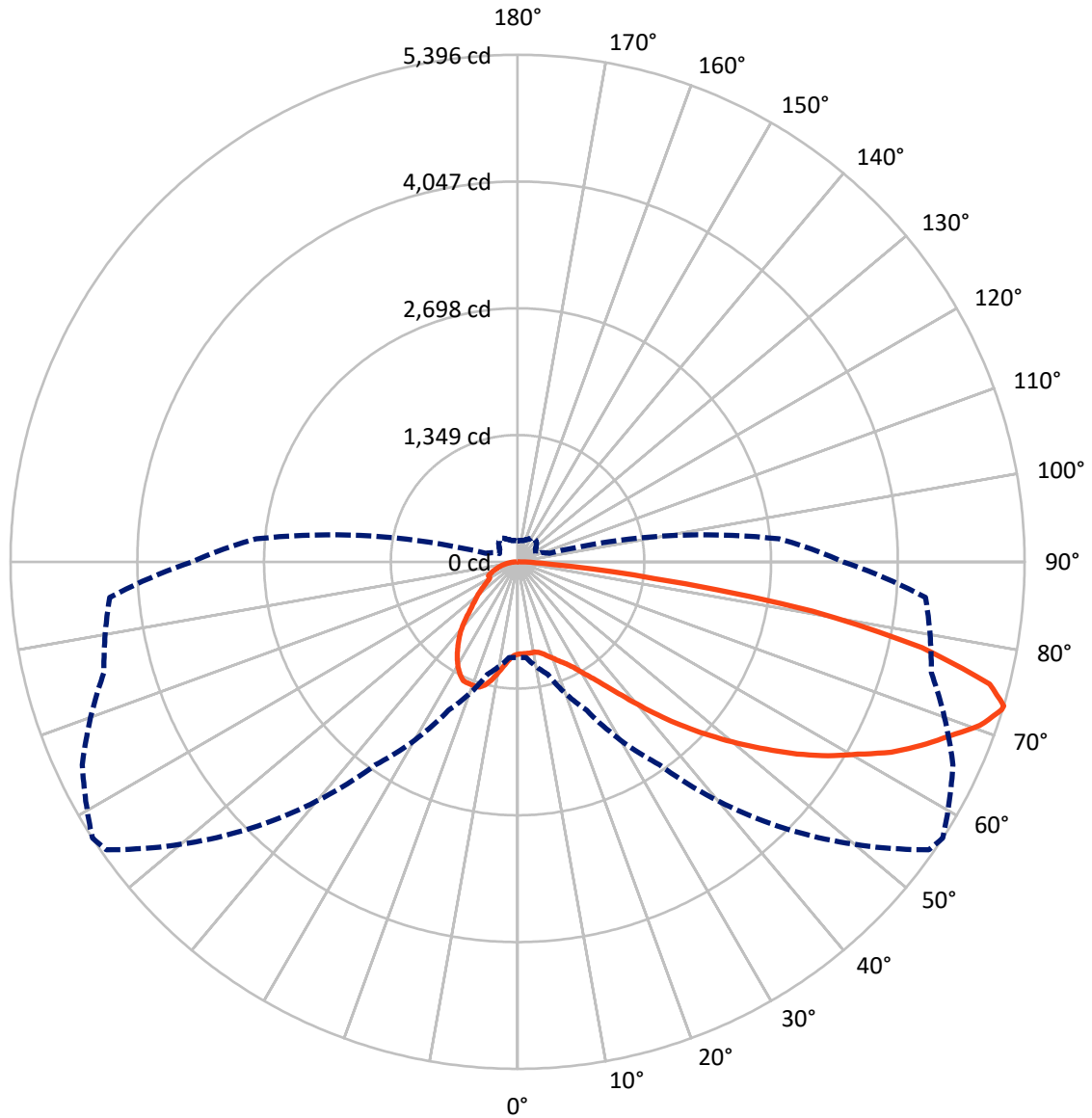
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 8.4 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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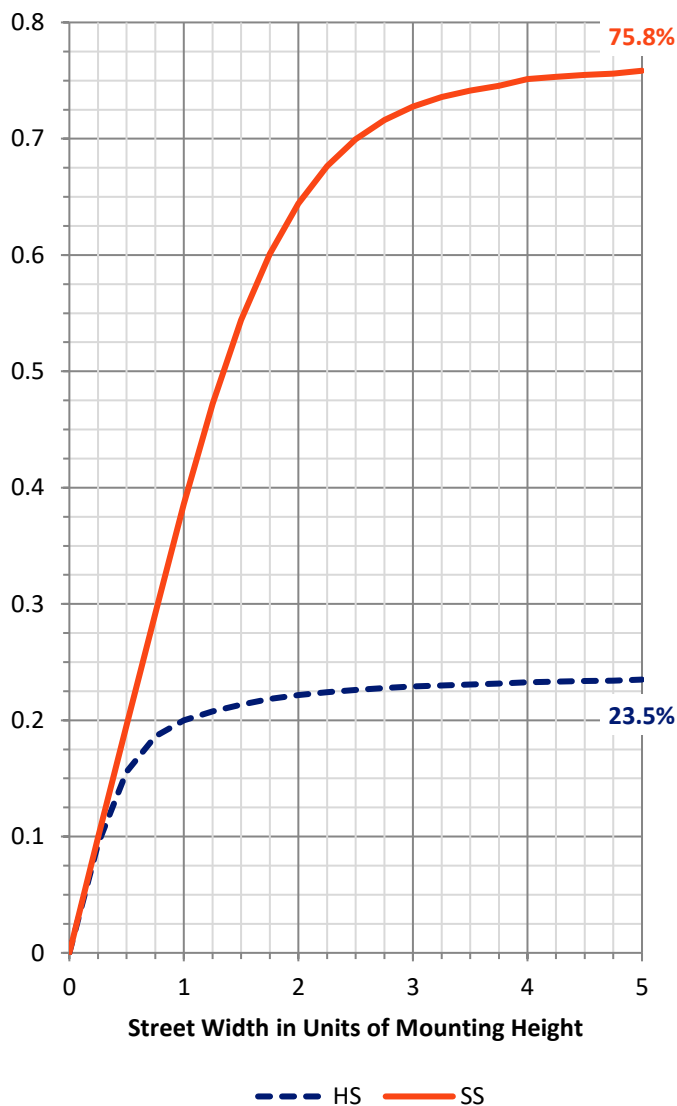
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2325.5	0.0	2325.5
	% Fixture	23.9	0.0	23.9
Street Side	Lumens	7422.4	0.0	7422.4
	% Fixture	76.1	0.0	76.1
Total	Lumens	9748.0	0.0	9748.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.0	1.0
10°-20°	322.5	3.3
20°-30°	595.3	6.1
30°-40°	919.3	9.4
40°-50°	1383.7	14.2
50°-60°	2025.2	20.8
60°-70°	2391.6	24.5
70°-80°	1712.3	17.6
80°-90°	300.0	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°	9748.0	100.0
0°-180°	9748.0	100.0

Coefficient of Utilization

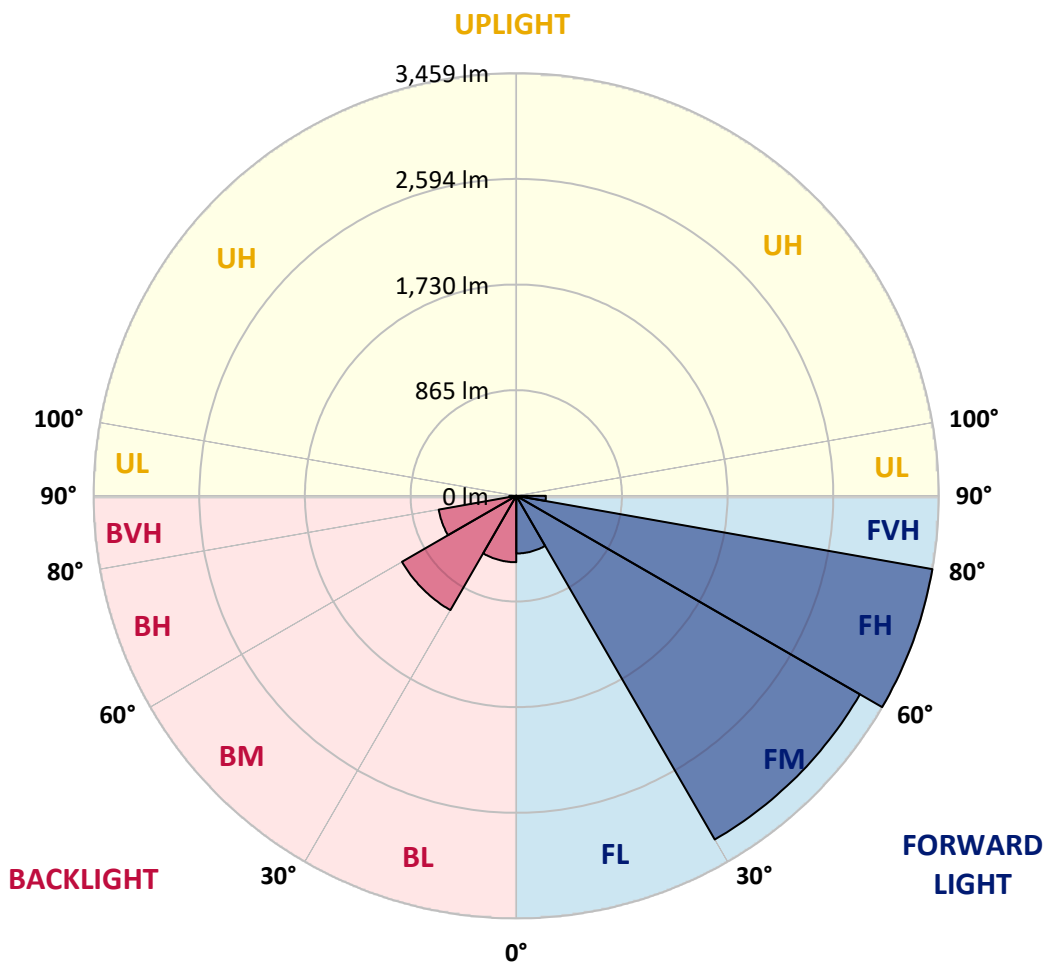


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	472.3	4.8			
FM	(30°-60°)	3248.3	33.3			
FH	(60°-80°)	3459.1	35.5			G2/5000
FVH	(80°-90°)	242.7	2.5			G3/500
BL	(0°-30°)	543.5	5.6	B2/1000		
BM	(30°-60°)	1080.0	11.1	B2/2500		
BH	(60°-80°)	644.8	6.6	B2/1000		G2/1000
BVH	(80°-90°)	57.3	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°	982.1	982.1	982.1	982.1	982.1	982.1	982.1	982.1	982.1	982.1	982.1
2.5°	970.2	974.9	972.6	974.9	982.1	977.3	977.3	979.7	982.1	979.7	984.5
5°	929.5	931.9	936.7	946.3	963.0	967.8	979.7	979.7	984.5	989.3	996.5
7.5°	862.6	867.4	877.0	886.5	915.2	943.9	974.9	979.7	996.5	1008.4	1013.2
10°	850.7	855.5	857.9	872.2	900.9	929.5	967.8	977.3	1008.4	1027.5	1049.0
12.5°	838.7	843.5	850.7	869.8	905.6	936.7	977.3	986.9	1025.1	1063.4	1089.6
15°	848.3	850.7	857.9	877.0	912.8	955.8	1008.4	1015.6	1058.6	1106.4	1147.0
17.5°	872.2	874.6	872.2	888.9	922.4	972.6	1044.2	1056.2	1108.8	1156.6	1197.2
20°	927.2	929.5	920.0	920.0	943.9	994.1	1082.5	1099.2	1163.7	1216.3	1256.9
22.5°	1046.6	1041.9	1018.0	986.9	986.9	1027.5	1125.5	1149.4	1230.6	1273.6	1309.5
25°	1216.3	1216.3	1178.1	1120.7	1082.5	1077.7	1175.7	1202.0	1297.5	1350.1	1371.6
27.5°	1421.8	1424.2	1362.1	1285.6	1211.5	1175.7	1247.4	1273.6	1381.2	1436.1	1443.3
30°	1603.4	1605.8	1543.7	1472.0	1381.2	1302.3	1342.9	1371.6	1495.9	1538.9	1515.0
32.5°	1785.0	1787.4	1744.4	1646.4	1550.8	1452.9	1464.8	1481.5	1608.2	1648.8	1610.6
35°	1942.7	1949.9	1906.9	1832.8	1732.4	1644.0	1622.5	1624.9	1739.6	1765.9	1715.7
37.5°	2102.8	2102.8	2076.5	2007.2	1921.2	1823.2	1794.6	1801.7	1904.5	1930.8	1859.1
40°	2305.9	2315.5	2301.2	2215.1	2117.2	2035.9	2007.2	2016.8	2129.1	2114.8	2038.3
42.5°	2552.1	2573.6	2549.7	2456.5	2351.3	2260.5	2260.5	2260.5	2356.1	2358.5	2243.8
45°	2867.5	2867.5	2843.6	2762.3	2623.8	2532.9	2501.9	2509.1	2592.7	2602.2	2468.4
47.5°	3130.3	3154.2	3128.0	3068.2	2958.3	2872.3	2774.3	2762.3	2831.6	2831.6	2716.9
50°	3343.0	3386.0	3364.5	3390.8	3312.0	3268.9	3068.2	3034.8	3058.7	3082.6	2955.9
52.5°	3519.8	3553.3	3546.1	3622.6	3660.8	3684.7	3366.9	3314.3	3333.5	3331.1	3216.4
55°	3531.8	3543.7	3651.3	3823.3	3973.9	4086.2	3668.0	3610.6	3591.5	3582.0	3493.6
57.5°	3462.5	3469.7	3684.7	3887.8	4215.2	4344.2	3952.4	3895.0	3868.7	3835.3	3799.4
60°	3295.2	3331.1	3613.0	3926.1	4358.6	4545.0	4217.6	4157.9	4138.7	4067.1	4148.3
62.5°	3082.6	3099.3	3381.2	3847.2	4377.7	4631.0	4497.2	4461.3	4401.6	4298.8	4458.9
65°	2781.5	2779.1	3027.6	3615.4	4279.7	4674.0	4733.7	4714.6	4640.6	4463.7	4736.1
67.5°	2284.4	2339.4	2583.1	3204.4	4043.2	4717.0	4975.1	4951.2	4834.1	4611.9	4867.6
70°	1742.0	1775.5	2052.6	2587.9	3572.4	4599.9	5211.7	5218.8	5006.2	4642.9	4810.2
72.5°	1111.2	1168.5	1388.3	1885.4	2860.3	4165.0	5352.6	5386.1	5101.7	4599.9	4454.2
73°	1018.0	1022.7	1237.8	1744.4	2638.1	4009.7	5343.1	5395.7	5111.3	4556.9	4356.2
75°	607.0	633.2	762.3	1158.9	1883.0	3221.1	5085.0	5190.2	5061.1	4365.8	3818.5
77.5°	284.4	303.5	375.2	611.7	1025.1	1937.9	4274.9	4399.2	4485.2	3820.9	2910.5
80°	150.5	152.9	184.0	308.3	549.6	798.1	2979.8	3185.3	3307.2	2877.0	1957.1
82.5°	126.6	126.6	143.4	198.3	351.3	310.6	1228.2	1462.4	1792.2	1417.0	769.4
85°	102.8	105.1	143.4	148.2	250.9	160.1	293.9	368.0	695.4	626.1	86.0
87.5°	33.5	38.2	81.2	105.1	133.8	62.1	74.1	81.2	81.2	119.5	28.7
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°	982.1	982.1	982.1	982.1	982.1	982.1	982.1	982.1	982.1	982.1	982.1
2.5°	986.9	986.9	989.3	991.7	996.5	996.5	1001.2	1003.6	1008.4	1010.8	1003.6
5°	996.5	1001.2	1006.0	1020.3	1037.1	1051.4	1065.8	1077.7	1089.6	1096.8	1094.4
7.5°	1022.7	1029.9	1049.0	1075.3	1108.8	1130.3	1151.8	1173.3	1182.8	1187.6	1187.6
10°	1058.6	1072.9	1108.8	1151.8	1190.0	1223.5	1240.2	1254.5	1259.3	1264.1	1259.3
12.5°	1108.8	1127.9	1182.8	1237.8	1280.8	1297.5	1295.1	1276.0	1249.7	1245.0	1240.2
15°	1173.3	1197.2	1259.3	1323.8	1357.3	1335.8	1280.8	1261.7	1256.9	1271.3	1266.5
17.5°	1228.2	1256.9	1333.4	1400.3	1393.1	1319.0	1302.3	1311.9	1307.1	1309.5	1309.5
20°	1280.8	1321.4	1402.7	1448.1	1386.0	1338.2	1323.8	1311.9	1297.5	1302.3	1297.5
22.5°	1347.7	1376.4	1469.6	1472.0	1376.4	1338.2	1307.1	1283.2	1278.4	1280.8	1283.2
25°	1400.3	1445.7	1526.9	1455.3	1376.4	1299.9	1256.9	1252.1	1254.5	1268.9	1264.1
27.5°	1472.0	1517.4	1572.3	1445.7	1319.0	1237.8	1221.1	1218.7	1202.0	1206.7	1206.7
30°	1538.9	1593.8	1596.2	1445.7	1247.4	1185.2	1161.3	1118.3	1082.5	1089.6	1087.3
32.5°	1629.7	1677.5	1601.0	1388.3	1166.1	1115.9	1051.4	984.5	967.8	977.3	979.7
35°	1734.8	1773.1	1605.8	1292.8	1084.9	1018.0	900.9	862.6	860.2	867.4	874.6
37.5°	1873.4	1894.9	1641.6	1182.8	1006.0	865.0	774.2	764.7	743.2	728.8	731.2
40°	2043.1	2016.8	1710.9	1084.9	912.8	726.4	688.2	661.9	621.3	580.7	587.8
42.5°	2231.9	2157.8	1732.4	1006.0	786.2	640.4	604.6	563.9	513.8	470.7	468.4
45°	2435.0	2315.5	1713.3	943.9	659.5	575.9	537.7	489.9	430.1	394.3	394.3
47.5°	2676.3	2466.0	1653.6	893.7	571.1	518.5	470.7	423.0	382.3	348.9	348.9
50°	2941.6	2640.5	1610.6	805.3	509.0	463.6	415.8	377.6	346.5	320.2	320.2
52.5°	3221.1	2805.4	1574.7	676.2	454.0	413.4	379.9	348.9	322.6	289.1	284.4
55°	3505.5	2963.1	1591.5	552.0	403.8	377.6	356.0	325.0	315.4	308.3	303.5
57.5°	3801.8	3135.1	1632.1	451.6	360.8	358.4	348.9	370.4	391.9	377.6	370.4
60°	4033.6	3268.9	1636.9	379.9	334.5	377.6	425.3	432.5	375.2	341.7	339.3
62.5°	4217.6	3395.6	1524.5	329.8	341.7	444.5	454.0	382.3	325.0	310.6	310.6
65°	4313.2	3441.0	1225.9	301.1	356.0	425.3	411.0	344.1	303.5	301.1	301.1
67.5°	4265.4	3405.1	857.9	270.0	315.4	368.0	368.0	315.4	279.6	291.5	286.7
70°	4036.0	3228.3	566.3	243.7	277.2	332.2	341.7	293.9	260.5	267.6	260.5
72.5°	3558.1	2912.9	372.8	215.1	239.0	293.9	317.8	270.0	239.0	236.6	229.4
73°	3464.9	2793.4	351.3	210.3	231.8	284.4	310.6	265.2	234.2	227.0	222.2
75°	2939.2	2329.8	265.2	188.8	205.5	255.7	289.1	248.5	215.1	205.5	200.7
77.5°	2141.1	1615.4	198.3	160.1	172.0	222.2	255.7	227.0	191.2	179.2	176.8
80°	1335.8	879.4	148.2	129.0	136.2	186.4	224.6	203.1	164.9	150.5	148.2
82.5°	523.3	286.7	102.8	95.6	100.4	141.0	188.8	176.8	138.6	126.6	119.5
85°	86.0	98.0	66.9	64.5	64.5	100.4	143.4	136.2	93.2	81.2	71.7
87.5°	23.9	45.4	26.3	23.9	23.9	43.0	78.9	62.1	38.2	31.1	28.7
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)