

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: P594205

Luminaire Tested: **ISC-PA1D-727-U-T3**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P594205  
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-PA1D-727-U-T3  
Description: IMPACT ELITE LED CYLINDER LUMINAIRE  
(1) 70 CRI, 2700K, 800mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7128 lumens  
Efficiency: N/A  
Efficacy: 113.1 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G2

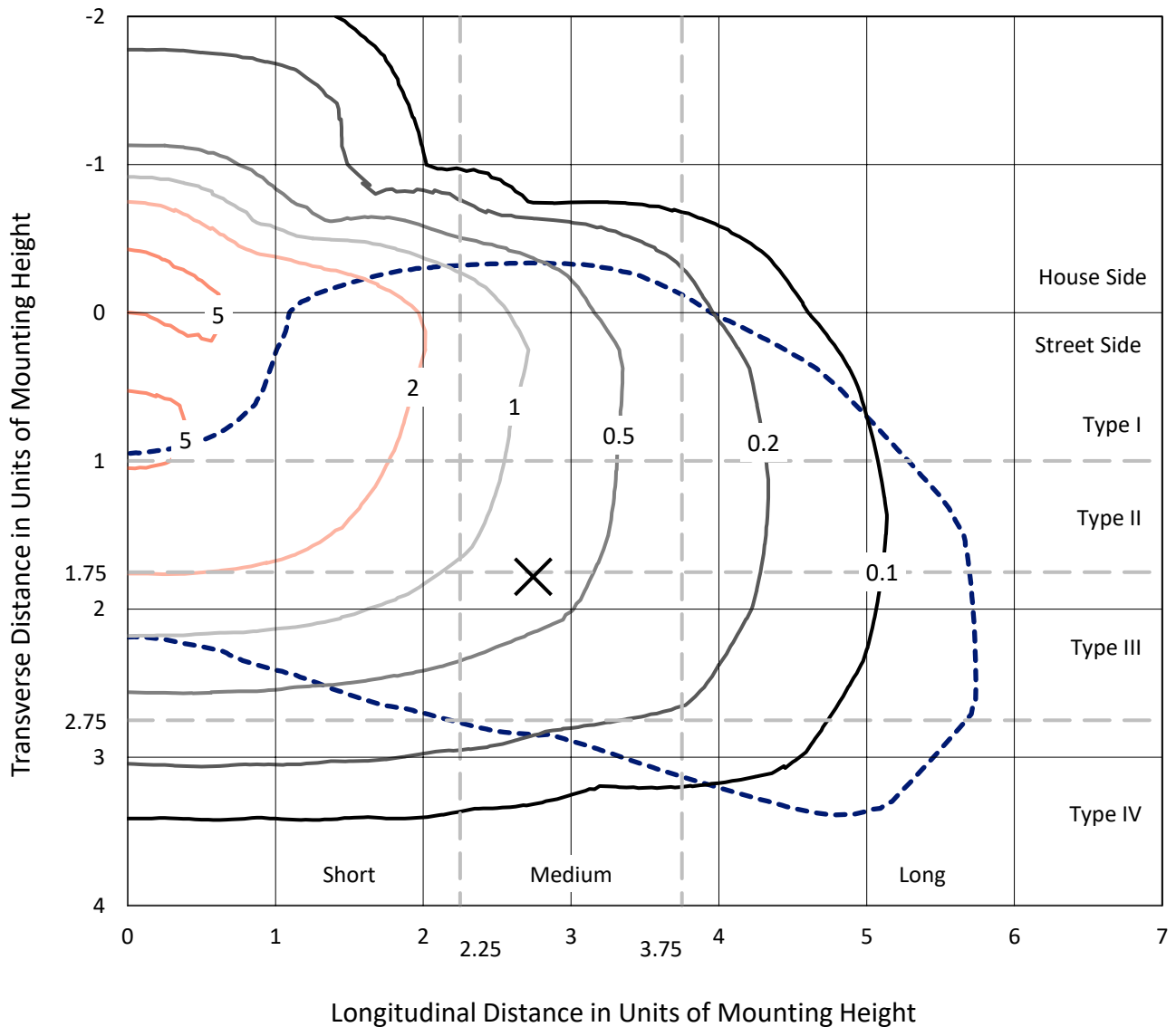
Input Watts (W): 63  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



REPORT NUMBER: P594205  
 CATALOG NUMBER: ISC-PA1D-727-U-T3

### Iso-Footcandle Lines of Horizontal Illumination

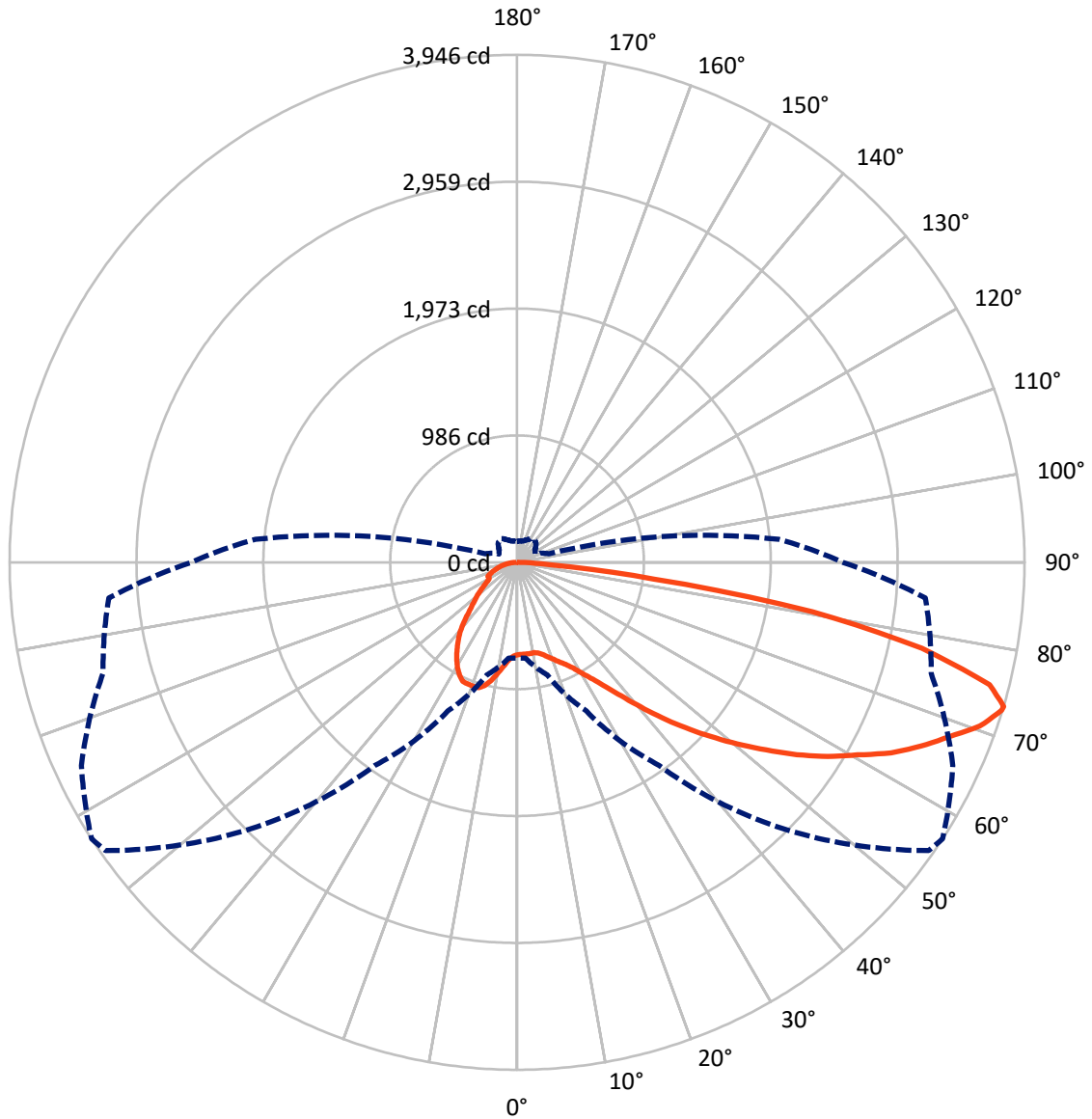
✕ Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 6.1 fc  
 Type IV - Medium - N/A

REPORT NUMBER: P594205  
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### Luminous Intensity Polar Plot



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

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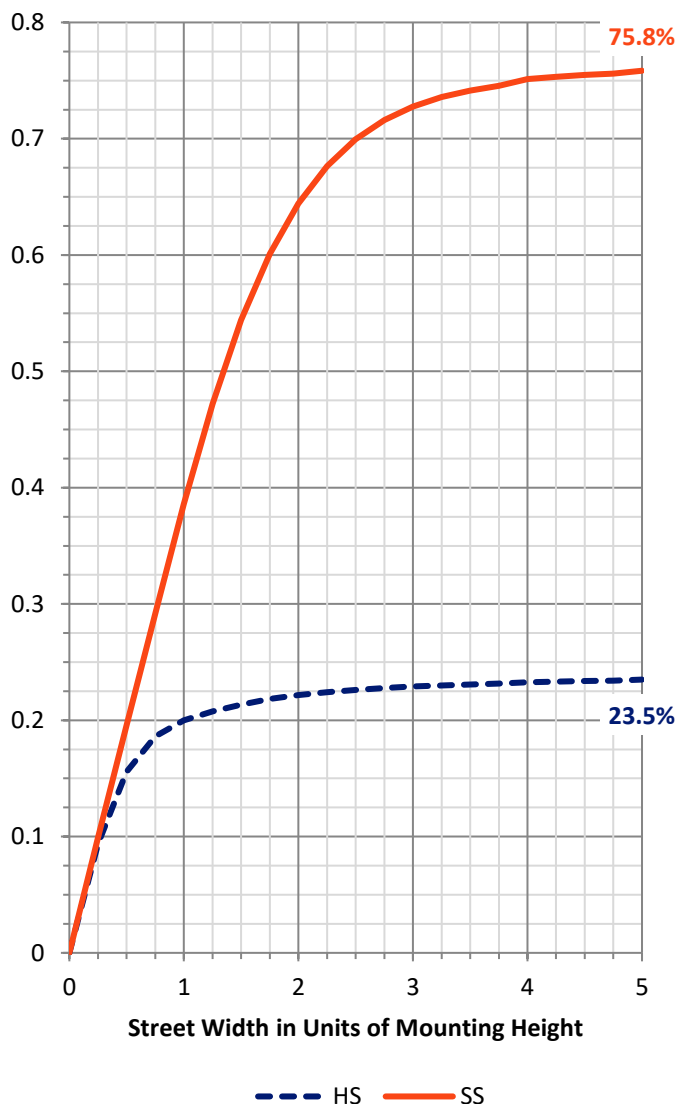
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1700.5	0.0	1700.5
	% Fixture	23.9	0.0	23.9
<b>Street Side</b>	Lumens	5427.5	0.0	5427.5
	% Fixture	76.1	0.0	76.1
<b>Total</b>	Lumens	7128.0	0.0	7128.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	71.7	1.0
10°-20°	235.8	3.3
20°-30°	435.3	6.1
30°-40°	672.2	9.4
40°-50°	1011.8	14.2
50°-60°	1480.9	20.8
60°-70°	1748.8	24.5
70°-80°	1252.1	17.6
80°-90°	219.4	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°	7128.0	100.0
0°-180°	7128.0	100.0

**Coefficient of Utilization**

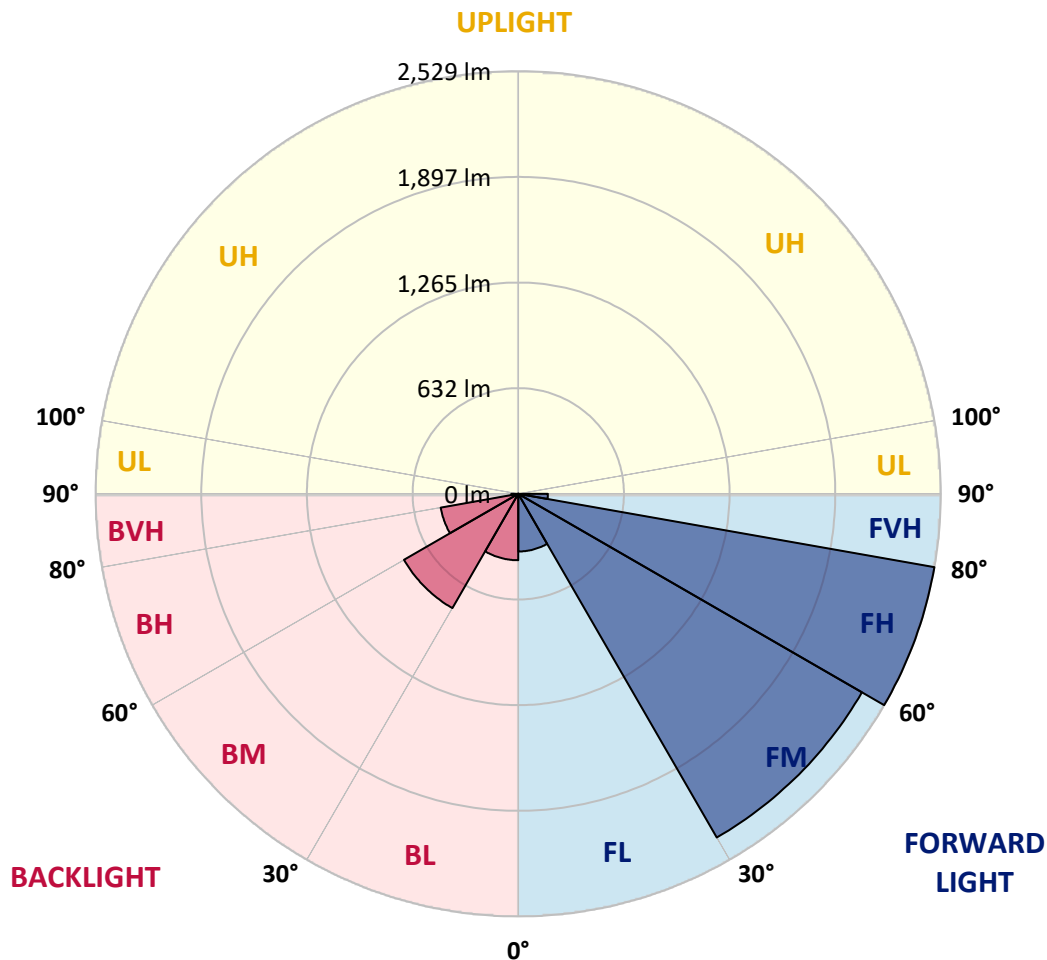


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 CATALOG NUMBER: ISC-PA1D-727-U-T3

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	345.4	4.8			
FM (30°-60°)	2375.2	33.3			
FH (60°-80°)	2529.4	35.5			G2/5000
FVH (80°-90°)	177.5	2.5			G2/225
BL (0°-30°)	397.4	5.6	B1/500		
BM (30°-60°)	789.7	11.1	B1/1000		
BH (60°-80°)	471.5	6.6	B1/500		G1/500
BVH (80°-90°)	41.9	0.6			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 IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	718.1	718.1	718.1	718.1	718.1	718.1	718.1	718.1	718.1	718.1	718.1
2.5°	709.4	712.9	711.2	712.9	718.1	714.7	714.7	716.4	718.1	716.4	719.9
5°	679.7	681.5	684.9	691.9	704.2	707.7	716.4	716.4	719.9	723.4	728.6
7.5°	630.8	634.3	641.3	648.3	669.2	690.2	712.9	716.4	728.6	737.4	740.9
10°	622.0	625.5	627.3	637.8	658.7	679.7	707.7	714.7	737.4	751.3	767.1
12.5°	613.3	616.8	622.0	636.0	662.2	684.9	714.7	721.6	749.6	777.6	796.8
15°	620.3	622.0	627.3	641.3	667.5	698.9	737.4	742.6	774.1	809.0	838.7
17.5°	637.8	639.5	637.8	650.0	674.5	711.2	763.6	772.3	810.8	845.7	875.4
20°	678.0	679.7	672.7	672.7	690.2	726.9	791.5	803.8	850.9	889.4	919.1
22.5°	765.3	761.8	744.4	721.6	721.6	751.3	823.0	840.5	899.9	931.3	957.5
25°	889.4	889.4	861.4	819.5	791.5	788.0	859.7	878.9	948.8	987.2	1003.0
27.5°	1039.7	1041.4	996.0	940.1	885.9	859.7	912.1	931.3	1010.0	1050.1	1055.4
30°	1172.5	1174.2	1128.8	1076.3	1010.0	952.3	982.0	1003.0	1093.8	1125.3	1107.8
32.5°	1305.2	1307.0	1275.5	1203.9	1134.0	1062.4	1071.1	1083.3	1175.9	1205.7	1177.7
35°	1420.6	1425.8	1394.4	1340.2	1266.8	1202.2	1186.4	1188.2	1272.0	1291.3	1254.6
37.5°	1537.6	1537.6	1518.4	1467.7	1404.8	1333.2	1312.2	1317.5	1392.6	1411.8	1359.4
40°	1686.2	1693.2	1682.7	1619.8	1548.1	1488.7	1467.7	1474.7	1556.9	1546.4	1490.5
42.5°	1866.1	1881.9	1864.4	1796.2	1719.4	1653.0	1653.0	1653.0	1722.9	1724.6	1640.7
45°	2096.8	2096.8	2079.3	2019.9	1918.6	1852.2	1829.4	1834.7	1895.8	1902.8	1805.0
47.5°	2289.0	2306.5	2287.2	2243.6	2163.2	2100.3	2028.6	2019.9	2070.6	2070.6	1986.7
50°	2444.5	2476.0	2460.2	2479.4	2421.8	2390.3	2243.6	2219.1	2236.6	2254.0	2161.4
52.5°	2573.8	2598.3	2593.0	2648.9	2676.9	2694.4	2462.0	2423.5	2437.5	2435.8	2351.9
55°	2582.5	2591.3	2669.9	2795.7	2905.8	2987.9	2682.1	2640.2	2626.2	2619.2	2554.6
57.5°	2531.9	2537.1	2694.4	2842.9	3082.3	3176.6	2890.1	2848.1	2828.9	2804.5	2778.2
60°	2409.6	2435.8	2641.9	2870.8	3187.1	3323.4	3084.0	3040.3	3026.4	2973.9	3033.3
62.5°	2254.0	2266.3	2472.5	2813.2	3201.1	3386.3	3288.5	3262.2	3218.6	3143.4	3260.5
65°	2033.9	2032.1	2213.9	2643.7	3129.5	3417.8	3461.4	3447.5	3393.3	3264.0	3463.2
67.5°	1670.4	1710.6	1888.9	2343.2	2956.5	3449.2	3637.9	3620.4	3534.8	3372.3	3559.3
70°	1273.8	1298.3	1500.9	1892.3	2612.2	3363.6	3810.9	3816.1	3660.6	3395.0	3517.4
72.5°	812.5	854.4	1015.2	1378.6	2091.5	3045.6	3914.0	3938.5	3730.5	3363.6	3257.0
73°	744.4	747.9	905.1	1275.5	1929.0	2932.0	3907.0	3945.5	3737.5	3332.1	3185.4
75°	443.8	463.0	557.4	847.5	1376.9	2355.4	3718.3	3795.2	3700.8	3192.4	2792.2
77.5°	207.9	221.9	274.3	447.3	749.6	1417.1	3126.0	3216.8	3279.7	2794.0	2128.2
80°	110.1	111.8	134.5	225.4	401.9	583.6	2178.9	2329.2	2418.3	2103.8	1431.1
82.5°	92.6	92.6	104.8	145.0	256.9	227.2	898.1	1069.4	1310.5	1036.2	562.6
85°	75.1	76.9	104.8	108.3	183.5	117.1	214.9	269.1	508.5	457.8	62.9
87.5°	24.5	28.0	59.4	76.9	97.8	45.4	54.2	59.4	59.4	87.4	21.0
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°	718.1	718.1	718.1	718.1	718.1	718.1	718.1	718.1	718.1	718.1	718.1
2.5°	721.6	721.6	723.4	725.1	728.6	728.6	732.1	733.9	737.4	739.1	733.9
5°	728.6	732.1	735.6	746.1	758.3	768.8	779.3	788.0	796.8	802.0	800.3
7.5°	747.9	753.1	767.1	786.3	810.8	826.5	842.2	857.9	864.9	868.4	868.4
10°	774.1	784.5	810.8	842.2	870.2	894.6	906.9	917.3	920.8	924.3	920.8
12.5°	810.8	824.7	864.9	905.1	936.6	948.8	947.0	933.1	913.8	910.4	906.9
15°	857.9	875.4	920.8	968.0	992.5	976.8	936.6	922.6	919.1	929.6	926.1
17.5°	898.1	919.1	975.0	1023.9	1018.7	964.5	952.3	959.3	955.8	957.5	957.5
20°	936.6	966.3	1025.7	1058.9	1013.4	978.5	968.0	959.3	948.8	952.3	948.8
22.5°	985.5	1006.5	1074.6	1076.3	1006.5	978.5	955.8	938.3	934.8	936.6	938.3
25°	1023.9	1057.1	1116.5	1064.1	1006.5	950.5	919.1	915.6	917.3	927.8	924.3
27.5°	1076.3	1109.5	1149.7	1057.1	964.5	905.1	892.9	891.1	878.9	882.4	882.4
30°	1125.3	1165.5	1167.2	1057.1	912.1	866.7	849.2	817.7	791.5	796.8	795.0
32.5°	1191.7	1226.6	1170.7	1015.2	852.7	816.0	768.8	719.9	707.7	714.7	716.4
35°	1268.6	1296.5	1174.2	945.3	793.3	744.4	658.7	630.8	629.0	634.3	639.5
37.5°	1369.9	1385.6	1200.4	864.9	735.6	632.5	566.1	559.1	543.4	532.9	534.7
40°	1494.0	1474.7	1251.1	793.3	667.5	531.2	503.2	484.0	454.3	424.6	429.8
42.5°	1632.0	1577.8	1266.8	735.6	574.9	468.3	442.1	412.4	375.7	344.2	342.5
45°	1780.5	1693.2	1252.8	690.2	482.3	421.1	393.1	358.2	314.5	288.3	288.3
47.5°	1957.0	1803.2	1209.1	653.5	417.6	379.2	344.2	309.3	279.6	255.1	255.1
50°	2151.0	1930.8	1177.7	588.8	372.2	339.0	304.0	276.1	253.4	234.1	234.1
52.5°	2355.4	2051.4	1151.5	494.5	332.0	302.3	277.8	255.1	235.9	211.4	207.9
55°	2563.3	2166.7	1163.7	403.6	295.3	276.1	260.4	237.6	230.6	225.4	221.9
57.5°	2780.0	2292.5	1193.4	330.2	263.8	262.1	255.1	270.8	286.6	276.1	270.8
60°	2949.5	2390.3	1196.9	277.8	244.6	276.1	311.0	316.3	274.3	249.9	248.1
62.5°	3084.0	2482.9	1114.8	241.1	249.9	325.0	332.0	279.6	237.6	227.2	227.2
65°	3153.9	2516.1	896.4	220.2	260.4	311.0	300.5	251.6	221.9	220.2	220.2
67.5°	3119.0	2489.9	627.3	197.4	230.6	269.1	269.1	230.6	204.4	213.2	209.7
70°	2951.2	2360.6	414.1	178.2	202.7	242.9	249.9	214.9	190.5	195.7	190.5
72.5°	2601.8	2130.0	272.6	157.3	174.7	214.9	232.4	197.4	174.7	173.0	167.7
73°	2533.6	2042.6	256.9	153.8	169.5	207.9	227.2	194.0	171.2	166.0	162.5
75°	2149.2	1703.6	194.0	138.0	150.3	187.0	211.4	181.7	157.3	150.3	146.8
77.5°	1565.6	1181.2	145.0	117.1	125.8	162.5	187.0	166.0	139.8	131.0	129.3
80°	976.8	643.0	108.3	94.4	99.6	136.3	164.2	148.5	120.6	110.1	108.3
82.5°	382.7	209.7	75.1	69.9	73.4	103.1	138.0	129.3	101.3	92.6	87.4
85°	62.9	71.6	48.9	47.2	47.2	73.4	104.8	99.6	68.1	59.4	52.4
87.5°	17.5	33.2	19.2	17.5	17.5	31.5	57.7	45.4	28.0	22.7	21.0
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)